HIGHWAY WORK PROPOSAL

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

Proposal Number: 047

STATE ID	FEDERAL ID	PROJECT DESCRIPTION	HIGHWAY	COUNTY
5845-16-73	N/A	Stoughton - Madison, Harrison St to Roby Rd	USH 051	Dane
5845-16-74	WISC 2026138	Stoughton - Madison, Roby Road to S CTH B/Ab	USH 051	Dane
5845-16-83	N/A	Stoughton - Madison, Harrison St to Roby Rd	USH 051	Dane

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: $1,000,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: February 10, 2026 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time October 29, 2027	
Assigned Disadvantaged Business Enterprise Goal 0%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)	(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: **For Department Use Only**

Removals, Grading, Aggregate, Concrete Pavement, Asphalt Pavement, Culvert Pipe, Sign Structure, Curb and Gutter, Concrete Sidewalk, Storm Sewer, Beam Guard, Erosion Control, Permanent Signing, Traffic Control, Pavement Marking, Lighting, Traffic Signals, Sanitary, Water, Retaining Wall, Restoration.

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://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 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 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://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the 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://wisconsindot.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 envelop 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

Wisconsin Department of Transportation

DT1303 1/2006

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

Wisconsin Department of Transportation

DT1305 8/2003

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)

Effective with March 2010 Letting

LIST OF SUBCONTRACTORS

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

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

Name of Subcontractor	Class of Work	Estimated Value

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

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.

2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.

4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.

6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.

7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR- 1273 - "Required Contract Provisions Federal Aid Construction Contracts," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

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

1. The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:

   (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

   (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;

   (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and

   (d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 5845-16-73 and 5845-16-83, Stoughton – Madison, Harrison St to Roby Rd; and Project 5845-16-74, Roby Road to S CTH B/AB, all located on USH 51, Dane 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, 2025 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 (20250701)

2. Scope of Work.

The work under this contract shall consist of excavation common, excavation rock, excavation marsh, select crushed material, base course dense, concrete pavement, HMA pavement, monotube cantilever sign structures, concrete curb and gutter, concrete sidewalk, concrete barrier, storm sewer, culvert pipe, permanent signing, traffic control, pavement marking, lighting, temporary traffic signals, traffic signals, sanitary sewer system components, water distribution system components, MGS guardrail, wall concrete panel mechanically stabilized earth, concrete masonry culverts (pedestrian underpasses), concrete masonry retaining walls, 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 ten calendar days before the approved start date.

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

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

Do not begin work under Project 5845-16-74 between approximate Station 572+05 NB (north of South Quam Drive) and the end of project, except for early fill work between Lake Kegonsa Road and Charles Lane, until 2027 under USH 51 road closed to through traffic and detoured conditions as further described in the Traffic article.

2026 Construction Season–Harrison Street to Approximate Station 572+05 NB (north of South Quam Drive)

Project 5845-16-73/83 – Harrison Street to Roby Road:

Stage 1A– Remove curb and gutter, inlet covers, and driveway aprons adjacent to the existing northbound lanes. Install asphaltic surface temporary, asphaltic curb, and inlet covers flat temporary adjacent to the existing northbound lanes.

Stage 1B– Remove median islands and curb and gutter. Install temporary asphaltic surface, asphaltic curb, temporary inlet covers, temporary slotted vein drain, and all other associated roadway items in the existing medians as shown in the plans. Install temporary signals prior to shifting traffic to Stage 2.

Stage 2– Remove existing pavement, curb and gutter, and sidewalk, and perform excavation on the existing southbound lanes. Remove storm sewer. Install select crushed material, base aggregate, storm sewer, concrete pavement, HMA pavement, curb and gutter, asphaltic surface temporary, concrete sidewalk, and all other associated roadway items for the southbound lanes as shown in the plans.

Stage 3– Remove existing pavement, curb and gutter, and sidewalk, and perform excavation in the existing northbound lanes. Remove storm sewer. Install select crushed material, base aggregate, storm sewer, concrete pavement, HMA pavement, curb and gutter, concrete sidewalk, and all other associated roadway items for the northbound lanes as shown in the plans.

Stage 4A– Install concrete pavement, curb and gutter, concrete sidewalk, and all other associated roadway items in the medians as shown in the plans.

Stage 4B– Install concrete pavement, curb and gutter, concrete sidewalk, permanent signing, lighting, traffic signals, pavement marking, and all other associated roadway items adjacent to the northbound and southbound lanes as shown in the plans.

Project 5845-16-74 – Roby Road to Approximate Station 572+05 NB (north of South Quam Drive):

Stage 1– Install mainline storm sewer/culvert crossings, asphaltic surface temporary along the east side of USH 51, and temporary crossover through the northern splitter island at the USH 51 and Roby Road intersection. Complete the asphaltic base patching at the USH 51 intersection with South Brooklyn Drive.

Stage 2– Remove existing pavement and perform excavation in the existing southbound lanes. Install select crushed material, base aggregate, storm sewer, concrete pavement, HMA pavement, curb and gutter, asphaltic surface temporary, concrete sidewalk, west half of pedestrian underpass C-13-2090, retaining walls R-13-389 and R-13-390 for the southbound lanes.

Stage 3– Remove existing pavement and sidewalk, and perform excavation in the existing northbound lanes. Install select crushed material, base aggregate, storm sewer, concrete pavement, HMA pavement, curb and gutter, concrete sidewalk, temporary lighting at roundabout locations (for use in Stage 4), east half of pedestrian underpass C-13-2090, and retaining walls R-13-387 and R-13-388 for the northbound lanes.

Stage 4– Install remaining median concrete curb and gutter, sidewalk, and lighting.

2026 Construction Season–Lake Kegonsa Road to Charles Lane (Early Fill Placement)

Project 5845-16-74:

Stage 1– Install the temporary concrete barrier wall and early fill material along the east side of USH 51.

Stage 2– Install temporary shoulder widening, temporary concrete barrier wall, and early fill material along the west side of USH 51.

Stage 3– Shift the temporary concrete barrier wall along the southbound travel lane to provide additional buffer distance to provide shoulder widths as detailed in the plans.

Winter Suspension (2026-2027)

Project 5845-16-74:

Winter shutdown will commence with the completion of Stage 4 in the Fall of 2026, except for the installation of the USH 51 detour signing as described in the “Other Contracts” article . Do not resume work until April 1, 2027, unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned recommencement of work in 2027. Upon approval the engineer will issue the notice to proceed within 10 days of the approved start date.

The temporary concrete barrier wall and crash cushions will remain in place between Lake Kegonsa Road and Charles Lane during the winter suspension duration

2027 Construction Season– Approximate Station 572+05 NB (north of South Quam Drive) to CTH B/AB

Project 5845-16-74:

Complete remaining project work.

Interim Completion and Liquidated Damages – Project 5845-16-73: November 30, 2026

Complete construction operations on USH 51 within Project 5845-16-73 limits to the stage necessary to reopen it to through traffic in the final travel lane configuration by November 30, 2026. Do not reopen until completing the following work: excavation, base course, concrete paving, HMA paving, sign structures, curb and gutter, sidewalk, storm sewer, permanent signing, traffic control, pavement marking, lighting, traffic signals, sanitary sewer system components, water distribution system components.

If the contractor fails to complete the work necessary to reopen USH 51 within Project 5845-16-73 limits to through traffic in the final travel lane configuration by November 30, 2026, the department will assess the contractor $2,185 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on December 1, 2026. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

Interim Completion and Liquidated Damages – Project 5845-16-74: November 30, 2026

Complete construction operations on USH 51 within Project 5845-16-74 limits between Roby Road and approximate Station 572+05 NB (north of South Quam Drive) to the stage necessary to reopen it to through traffic in the final travel lane configuration by November 30, 2026. Do not reopen until completing the following work: excavation common, select crushed material, base aggregate dense, concrete pavement, HMA pavement, monotube cantilever sign structures (S-13-0600, S-13-0601, S-13-0602, S-13-0603, S-13-0604), concrete curb and gutter, concrete sidewalk, culvert pipe, storm sewer, permanent signing, traffic control, pavement marking, lighting, and structures C-13-2090, R-13-0387, R-13-0388, R-13-03-89, R-13-0390.

If the contractor fails to complete the work necessary to reopen USH 51 within Project 5845-16-74 limits between Roby Road and approximate Station 572+05 NB (north of South Quam Drive) to traffic by November 30, 2026, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on December 1, 2026. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

Protection of Endangered Bats (Tree Clearing)

Federally protected bats have the potential to inhabit the project limits because they roost in trees, bridges and culverts. 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).

Ensure all operators, employees, and subcontractors working in areas of known or presumed bat habitat are aware of environmental commitments and avoidance and minimization measures (AMMs) to protect both bats and their habitat.

Direct temporary lighting, if used, away from wooded areas during the bat active season April 15 to October 31, both dates inclusive.

The department has contracted with others and will perform the following operations after October 31 and prior to April 15:

- Cutting down and removing trees.

Contractor means and methods to remove additional trees will not be allowed. If it is determined that additional trees with a 3-inch or greater diameter at breast height (dbh) need to be removed beyond contractor means and methods, notify the engineer to coordinate with the WisDOT REC to determine if

consultation with United States Fish and Wildlife Service (USFWS) is required. The contractor must be aware that the WisDOT REC and/or USFWS may not permit modifications.

Early Fill For Surcharging – Project 5845-16-74

Place early fill material for surcharging purposes on the west end of the existing Charles Lane Underpass (C-13-94), as detailed in the plans, in 2027 and allow for a minimum of two months of surcharge duration prior to beginning construction operations on the new pedestrian underpass structure C-13-2091. Restrict pedestrian access on both sides of the existing Charles Lane Underpass prior to beginning any removals or surcharge material placement. Do not remove surcharge material until approved by the engineer.

Place early fill material for surcharging purposes along the west and east sides of USH 51 between Lake Kegonsa Road and Charles Lane, as detailed in the plans, to allow for a minimum of nine months of surcharge duration prior to removal of the surcharge material and placement of the new pavement section. Do not remove surcharge material until approved by the engineer.

Fish Spawning – Project 5845-16-74

There shall be no instream disturbance of the following unnamed tributary waterways intersecting the project area as a result of construction activity under or for this contract, from March 1 to May 1, both dates inclusive, in order to avoid adverse impacts upon fish and other aquatic organisms during sensitive time periods such as spawning and migration.

- Unnamed tributary crossing of USH 51 near Sta. 587+25 NB and Quam Drive.
- Unnamed tributary crossing of USH 51 near Sta. 629+00 NB.

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

Pond 1 Dewatering – Project 5845-16-74

Do not begin work under bid item Dewatering Pond 1 until April 1, 2026. Notify Brian Taylor, Southwest Region Environmental Coordinator, phone (608) 245-2630, email BrianF.Taylor@dot.wi.gov at least 14 days prior to Pond 1 dewatering operations to coordinate having a biological monitor representative on site during dewatering operations to remove herptiles (herps).

Unnamed Tributary Crossing Near Station 587+21 NB - Project 5845-16-74

Notify Brian Taylor, Southwest Region Environmental Coordinator, phone (608) 245-2630, email BrianF.Taylor@dot.wi.gov at least 30 calendar days prior to beginning work at the unnamed tributary crossing replacement and associated tributary realignment work as detailed in the plans.

4. Lane Rental Fee Assessment.

A General

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

The allowable lane closure times are shown in the Traffic article.

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

B Lane Rental Fee Assessment

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

- USH 51 Nighttime Full Closure - $3,000 per lane, per direction of travel, per hour broken into 15-minute increments
- USH 51 Off-Peak Lane Closure (outside of the project limits) - $3,000 per lane, per direction of travel, per hour broken into 15-minute increments

- USH 12/18 Off-Peak Lane Closure - $5,000 per lane, per direction of travel, per hour broken into 15-minute increments
- USH 12/18 Off-Peak Service Ramp Closure - $5,000 per lane, per direction of travel, per hour broken into 15-minute increments
- USH 51 Off-Peak Lane Closure Under Flagging Operations - $3,000 per lane, per direction of travel, per hour broken into 15-minute increments

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

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

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

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

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

stp-108-070 (20161130)

5. Traffic.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control as shown on the plans. Submit the plan 14 days prior to the preconstruction conference, or if after the preconstruction conference, 14 days prior to the intended use of the revised traffic control. A request does not constitute approval.

Notify the engineer if there are any changes in the schedule, early completions, or cancellations of scheduled work. Coordinate all arrangements for handling traffic with the engineer before work is started on a new stage of construction that will change the traffic pattern existing at the time. Ensure that all traffic control devices are in place and approved by the engineer before beginning each stage.

Do not park or store equipment or material not being used during actual performance of the work within the right-of-way unless otherwise approved by the engineer.

Place drums and other temporary traffic control devices on the outer edge of the shoulder when not in use.

Place roadway signing and roadway temporary pavement marking as detailed on the plans and in conformance to the Wisconsin Manual on Uniform Traffic Control Devices (WMUTCD), latest edition.

Equip all vehicles and equipment which are operated on the roadway pavement or shoulders with a flashing yellow light that operates when the vehicle is operating at speeds less than the speed of normal traffic.

Employ such flaggers, signs, barricades, and drums as may be necessary to safeguard local traffic at all locations affected by construction operations. Make arrangements and be responsible for the prompt replacement of damaged or dislocated traffic control or guidance devices, day or night.

Conduct all operations in a manner that will cause the least interference to traffic movements. Use drums or barricades to protect hazards in the work zone, such as exposed manholes, removed sidewalk areas, or drop-offs for vehicles and pedestrians.

Provide and maintain at least one access to businesses along the project at all times. Maintain local vehicular access to driveways and side streets at all times during the construction period. If access needs to be eliminated due to construction operations, notify the Engineer and property owner or occupant of the property at least 72 hours prior to closing a driveway access. Schedule and conduct construction operations in such a manner so as not to deny access to driveways for a period longer than three calendar days.

Perform work in a manner that ensures pedestrian access to adjacent residents and businesses is maintained at all times. At the direction of the Engineer, a temporary pedestrian surface shall be provided to replace removed concrete sidewalk.

Do not store equipment or materials within the temporary limited easement limits of Parcel 52 in Project 5845-16-74 (TPP No. 5845-16-24). Maintain access to Parcel 52 at all times.

The use of motor vehicle compression or engine breaking within the Town of Dunn limits is prohibited per Town of Dunn Ordinance No. 19.13

Advance Notification

Notify City of Stoughton Police, EMS, Fire Department, Dane County Sheriff, and Stoughton Area School District at least 3 days (72 hours) in advance of all closures or staging switches.

Place Traffic Control Signs (PCMS) at the locations shown in the plan at least 7 days prior to and during construction. See plans for department approved messages to be displayed on each PCMS.

The contractor is responsible for coordinating with the following school districts to ensure that bus routes are maintained and accessible throughout construction.

Stoughton Area School District
District Administrator – Dan Keyser: 608-877-5002
Transportation Coordinator – Karen Johnson: 608-877-5061

The contractor is also responsible for coordinating with the following post office to ensure that mail delivery is maintained for residents along the project:

Stoughton

246 E Main Street
Stoughton, WI 53589
(800) 275-8777

2026 Construction Season–Harrison Street to Approximate Station 572+05 NB (north of South Quam Drive)

Project 5845-16-73/83 – Harrison Street to Roby Road:

Stage 1A–Close the outside through lane. North of Jackson Street, shift both lanes of traffic west to utilize the existing paved southbound shoulder. Keep all side streets open to two lanes of traffic.

To facilitate water and sanitary sewer lateral connections between Hoel Avenue and S Harrison Street, multiple limited-duration mainline closures will be allowed at the engineer's discretion during Stage 2 for a total duration not to exceed 21 calendar days.

Do not close STH 138 south for more than 14 consecutive days outside of engineer-directed mainline closures for utility tie-ins during Stage 2. When closing STH 138 south, provide a detour as the plans show.

Close the sidewalk on the north side of USH 51 from Gjertson Street to Silverado Drive. Divert pedestrian traffic to the south side of USH 51 using existing curb ramps at all intersections.

Stage 1B–Shift the single lane northbound traffic to the outside lane. Merge USH 51 traffic to a single lane in the southbound direction and divert traffic to the outside through lane. Provide temporary left turn lanes at Jackson Street using the inside through lanes. Keep side streets open to two lanes of traffic.

Allow pedestrian traffic on all existing sidewalk along USH 51.

Stage 2–Close the existing southbound lanes. Maintain a single lane of through traffic in each direction by shifting the traffic to the existing northbound lanes and the areas of temporary widening installed in Stage 1A and 1B. Provide left turn lanes at locations the plans show. Close Harrison Street, Gjertson Street, Main Street, Pine Street, and Rowe Street to USH 51 traffic. Keep other side streets open to two lanes of traffic. Complete work on King Street, STH 138 south, the south leg of Kings Lynn Road, and Jackson Street under hard closures. Do not impose hard closures on King Street and STH 138 south at the same time unless approved by the engineer. Do not impose a hard closure of the south leg of Kings Lynn Road while either driveway at Station 427+35 or Station 431+85 are closed. Shift southbound traffic to the existing southbound lanes through the Hoel St and STH 138 roundabouts, and then back to the existing northbound lanes. Reduce the Roby Road roundabout to a single circulating lane, and shift traffic to their cardinal direction.

Do not close STH 138 south for more than 14 consecutive days in Stage 2. When closing STH 138 south, provide a detour as the plans show.

Close the sidewalk on the south side of USH 51 from Harrison Street to Hoel Avenue. Divert pedestrian traffic to the north side of USH 51 using existing and temporary curb ramps at Monroe Street, Van Buren Street, Main Street, Rowe Street, King Street, Kings Lynn Road, and Hoel Avenue. Provide pedestrian access across USH 51 at Jackson Street using existing and temporary curb ramps.

Stage 3–Close the existing northbound lanes. Maintain a single lane of through traffic in each direction by shifting the traffic to the southbound lanes and temporary pavement constructed in Stage 2. Provide left turn lanes at locations the plans show. Close Harrison Street, Gjertson Street, Main Street, Pine Street, and Rowe Street to USH 51 traffic. Keep other side streets open to two lanes of traffic. Complete work on Van Buren Street, Hamilton Street, Kings Lynn Road, and Jackson Street under hard closures. Do not impose hard closures on Van Buren Street and Hamilton Street, Hamilton Street and Kings Lynn Road, or Kings Lynn Road and Jackson Street at the same time unless approved by the engineer. Close the inside left turn lane of STH 138 westbound and reduce the STH 138 roundabout to a single lane. Shift northbound traffic to the northbound lanes through the Hoel St and STH 138 roundabouts, and then back to the southbound lanes. Reduce the Roby Road roundabout to a single circulating lane, and shift traffic to their cardinal direction.

Close the sidewalk on the south side of USH 51 from Harrison Street to Hoel Avenue. Divert pedestrian traffic to the north side of USH 51 using existing and temporary curb ramps at Monroe Street, Van Buren Street, Main Street, Rowe Street, King Street, Kings Lynn Road, and Hoel Avenue. Provide pedestrian access across USH 51 at Jackson Street using existing and temporary curb ramps.

Stage 4A–Close the inside through lanes to through traffic by shifting the through traffic to the outside lanes. Restrict through movements on the side roads and all left turns at Harrison Street, Van Buren Street, Gjertson Street, Main Street, and Jackson Street.

Close the sidewalk on the south side of USH 51 from Harrison Street to Hoel Avenue. Divert pedestrian traffic to the north side of USH 51 using existing and temporary curb ramps at Monroe Street, Van Buren Street, Main Street, Rowe Street, King Street, Kings Lynn Road, and Hoel Avenue. Provide pedestrian access across USH 51 at Jackson Street using existing and temporary curb ramps.

Stage 4B–Close the outside through lanes to through traffic by shifting the through traffic to the inside lanes. Provide left turn lanes at locations the plans show.

Maintain pedestrian accommodations on one side of USH 51 at all times using existing and temporary curb ramps.

Project 5845-16-74 – Roby Road to Approximate Station 572+05 NB (north of South Quam Drive):

Stage 1–Maintain a single lane of through traffic in each direction; however, the northbound travel lane may be temporarily closed in accordance with standard detail drawing Traffic Control for Lane Closure with Flagging Operation to accommodate for the installation of temporary pavement adjacent to the northbound travel lane. One night-time off-peak closure of USH 51 will be allowed to installation each of the three storm sewer/culvert crossings of USH 51 at locations detailed in the plans (three total night-time off-peak closures).

Stage 2–Close the existing southbound lanes. Maintain a single lane of through traffic in each direction by shifting the traffic to the existing northbound lanes and the area of temporary widening installed in Stage 1. Install width restriction signing as detailed in the plans. Close Rutland-Dunn Townline Road during Stage 2. During the closure of Rutland-Dunn Townline Road, maintain access along Rutland-Dunn Townline Road through the sideroad work zone for residents, emergency vehicles, mail delivery, and garbage pickup on a minimum base aggregate dense surface with a minimum travel lane width of 12 feet. One night-time off-peak closure of USH 51 will be allowed to install each of the two storm sewer/culvert crossings of USH 51 at locations detailed in the plans (two total night-time off-peak closures).

Stage 3–Prior to the Stage 3 traffic switch, install a temporary traffic signal at the CTH B (east) intersection as detailed in the plans. Close the existing northbound lanes. Maintain a single lane of through traffic in each direction by shifting the traffic to the southbound lanes and temporary pavement constructed in Stage 2. Install width restriction signing as detailed in the plans. Close Greenbriar Drive during Stage 3. The Roby Road roundabout will be reduced to a single circulating lane.

Stage 3 (CTH B)–Close the existing eastbound lanes. Maintain a single lane of through traffic in each direction by shifting traffic to the existing westbound lane and area of temporary widening installed in Stage 2.

Stage 3B (CTH B)–Close the existing westbound lane. Maintain a single lane of through traffic in each direction by shifting the traffic to the eastbound lanes and area of temporary widening constructed in Stage 3.

Remove existing pavement and perform excavation. Install select crushed material, base aggregate storm sewer, concrete pavement, HMA pavement, and curb and gutter

Stage 4–Close the inside through lane to through traffic. The Roby Road, Rutland-Dunn Townline Road, and County B (east) roundabouts will be reduced to a single circulating lane.

2026 Construction Season–Lake Kegonsa Road to Charles Lane (Early Fill Placement)

Project 5845-16-74:

Early Fill Placement work may occur concurrently with work between Roby Road and Sta. 575+05 NB (north of South Quam Road). Adjust traffic control devices detailed in the plans as the engineer deems necessary to avoid conflict

Stage 1–Shift the northbound and southbound travel lanes to the west, as detailed in the plans, to allow for the placement of temporary concrete barrier wall and early fill material along the east side of USH 51. Install width restriction signs as detailed in the plans. The USH 51 northbound travel lane may be temporarily closed in accordance with standard detail drawing Traffic Control for Lane Closure with Flagging Operation.

Stage 2–Shift the northbound and southbound travel lanes to the east, as detailed in the plans, to allow for the placement of temporary concrete barrier wall and early fill material along the west side of USH 51. Install width restriction signs as detailed in the plans. The USH 51 southbound travel lane may be temporarily closed in accordance with standard detail drawing Traffic Control for Lane Closure with Flagging Operation.

Stage 3–Shift the northbound and southbound travel lanes to their original locations prior to the winter suspension, as detailed in the plans.

Winter Suspension (2026-2027)

Project 5845-16-74:

The temporary concrete barrier wall and crash cushions will remain in place between Lake Kegonsa Road and Charles Lane during the winter suspension duration

2027 Construction Season– Approximate Station 572+05 NB (north of South Quam Drive) to CTH B/AB

Project 5845-16-74:

Close USH 51 to through traffic and detour USH 51 traffic to the following route as shown in the plans during the 2027 construction season until completion of the project: USH 51–IH 39/90/94**–**US 12/18 (Beltline)–USH 51. During the posted detour, maintain access through the work zone for local traffic (both residential and commercial), emergency vehicles, school buses, mail delivery, and garbage pickup unless otherwise described in this article. Maintain a minimum travel lane width of 12 feet for local access on a minimum base aggregate dense surface.

Prior to beginning rock blasting operations of the existing rock cut between Charles Lane and Schneider Drive, close USH 51 to local traffic between Charles Lane and Schneider Drive.

USH 51 may be closed to local traffic between Lake Kegonsa Road and Charles Lane during the construction of B-13-922 (dual culvert crossing north of Lake Kegonsa Road) and C-13-2091 (pedestrian underpass just south of Charles Lane).

Do not close USH 51 to local traffic between Charles Lane and Schneider Drive and between Lake Kegonsa Road and Charles Lane concurrently, so that access is maintained at Charles Lane to/from USH 51 at all times in either the northbound or southbound direction.

Roadway Closures

General

Request approval from the engineer for all closures following the Wisconsin Lane Closure System table below. A request does not constitute approval. Failure to obtain approval or reopen closed lanes at the required time will be subject to lane rental charges specified below.

Allowable off-peak closure hours for USH 51 within the project limits are as follows:

USH 51 Northbound and Southbound, Nighttime Full Closure: 7:00 PM to 6:00 AM

Allowable off-peak closure hours for USH 51 outside of the project limits are as follows:

USH 51 Southbound (north of USH 12/18) Single Lane Closure: 8:00 PM to 6:00 AM

USH 51 Southbound (north of USH 12/18) Dual Lane Closure: 9:00 PM to 6:00 AM

Allowable off-peak closure hours for USH 12/18 are as follows:

USH 12/18 Eastbound Single Lane Closure: 8:00 PM to 6:00 AM

USH 12/18 Eastbound Entrance Ramp from Monona Drive Closure: 9:00 PM to 6:00 AM

USH 12/18 Westbound Single Lane Closure: 8:00 PM to 6:00 AM

USH 12/18 Westbound Exit Ramp to USH 51 Closure: 10:00 PM to 5:00 AM

Flagging Operations

Flagging operations on USH 51 are not permitted during peak hours as defined below in this article.

Peak Hours:

USH 51 south of CTH B (east)

2:00 PM to 6:00 PM Monday through Friday

USH 51 north of CTH B (east)

6:00 AM to 8:00 AM Monday through Friday

2:00 PM to 6:00 PM Monday through Friday

Flagging operations during the off-peak daytime period are limited to material and equipment deliveries only. Maximum distance between flaggers during the daytime off-peak period is 1/2 mile. During the times when flagging is allowed, a minimum lane width of 12 feet shall be maintained at all times.

The contractor shall cease or alter their work operations if traffic delays become longer than 15 minutes. If the contractor fails to comply with this special provision within a timely manner the project engineer shall suspend work operations in accordance with Subsection 108.6 until the contractor complies with the 15-minute delay period. If the contractor continues operations, Subsection 105.3.2.3 (Unauthorized Work) may be enforced for any work completed during that time, no additional compensation or additional time will be allowed due to such suspension of operations.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

6. Holiday and Special Event Work Restrictions.

Projects 5845-16-73 and 5845-16-83

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 51 or STH 138 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 Thursday, May 14, 2026 to 6:00 AM Monday, May 18, 2026 for Syttende Mai;
- From noon Friday, May 22, 2026 to 6:00 AM Tuesday, May 26, 2026 for Memorial Day;
- From noon Friday, July 3, 2026 to 6:00 AM Monday, July 6, 2026 for Independence Day;
- From noon Friday, September 4, 2026 to 6:00 AM Tuesday, September 8, 2026 for Labor Day;
- From noon Wednesday, November 25, 2026 to 6:00 AM Monday, November 30, 2026 for Thanksgiving.

Project 5845-16-74

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 51 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 Thursday, May 14, 2026 to 6:00 AM Monday, May 18, 2026 for Syttende Mai;
- From noon Friday, May 22, 2026 to 6:00 AM Tuesday, May 26, 2026, for Memorial Day;
- From noon Friday, July 3, 2026 to 6:00 AM Monday, July 6, 2026, for Independence Day;
- From noon Friday, September 4, 2026 to 6:00 AM Tuesday, September 8, 2026, for Labor Day;
- From noon Wednesday, November 25, 2026 to 6:00 AM Monday, November 30, 2026 for Thanksgiving;
- From noon Friday, May 28, 2027 to 6:00 AM Tuesday, June 1, 2027, for Memorial Day;
- From noon Friday, July 2, 2027 to 6:00 AM Tuesday, July 6, 2027, for Independence Day;
- From noon Friday, September 3, 2027 to 6:00 AM Tuesday, September 7, 2027, for Labor Day;
- From noon Wednesday, November 24, 2027 to 6:00 AM Monday, November 29, 2027 for Thanksgiving.

stp-107-005 (20210113)

7. Utilities.

Project 5845-16-73

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

The utility work plan includes additional detailed information regarding the location of known discontinued, relocated, or removed utility facilities. These can be requested from the department during the bid preparation process or from the project engineer after the contract has been awarded and executed.

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the prior work will be completed and the site will be available to the utility. Follow-up with a confirmation notice to the engineer and the utility not less than 3 working days before the site will be ready for the utility to begin its work.

stp-107-066 (20240703)

Any utility facility locations (stations, offsets, elevations, depths) listed in this article are approximate.

The following utility companies have facilities within the project area.

Alliant Energy - Gas has underground gas main facilities that run parallel to USH 51 from approximately Station 396+30 NB to Station 398+85 NB RT, Station 404+72 NB 409+28 NB RT, Station 415+88 NB to Station 443+53 NB RT, Station 469+36 NB to Station 477+30 NB RT, Station 397+78 NB to Station 407+26 NB LT, and Station 454+96 NB to Station 487+46 NB LT. Underground gas facilities cross USH 51 at approximately Station 396+78 NB, Station 396+80 NB, Station 397+86 NB, Station 399+97 NB, Station 400+01 NB, Station 402+00 NB, Station 404+69 NB, Station 419+80 NB, Station 422+25 NB, Station 426+49 NB, Station 427+22 NB, Station 435+52 NB, Station 440+35 NB, Station 464+25 NB, and Station 475+98 NB. Underground gas main facilities cross Harrison Street, the south leg of South Van Buren Street, the north and south leg of South Gjertson Street, Kings Lynn Road, and the west leg of

Jackson Street. Underground gas facilities are also present within the grading limits of the stormwater infiltration areas in the southeast quadrant of the Hoel Avenue roundabout and in the west quadrant of the STH 138 roundabout. Alliant Energy will address conflicts at the following locations:

- Install new 4-inch gas main crossing at Station 396+50 NB at an approximate depth of 48 inches. Discontinue existing crossing at Station 396+75 NB.
- Install new 4-inch gas main 2 feet off of the right of way line from Station 396+50 NB LT to Station 401+50 NB LT at an approximate depth of 48 inches. Discontinue existing gas main in area of proposed 4-inch gas main. Discontinue existing crossing at Station 397+75 NB.
- Install new service laterals at Station 399+90 NB and Station 410+00 NB at an approximate depth of 48 inches. Discontinue existing service laterals in area of proposed service laterals.
- Install new 2-inch gas main from Station 397+80 NB RT to the north along the east right of way limits on Harrison Street at an approximate depth of 60 inches. Discontinue existing gas line in area of proposed 2-inch gas main.
- Install new 6-inch gas main crossing at Station 401+50 NB at an approximate depth of 48 inches.
- Install new 2-inch gas main from Station 401+50 NB LT to Station 405+75 NB LT at a typical approximate depth of 48 inches and an approximate depth of 63 inches crossing Van Buren Street. Discontinue existing gas line in area of proposed 2-inch gas main.
- Install new 2-inch gas main crossing at Station 404+60 NB at an approximate depth of 48 inches.
- Install new 2-inch gas main crossing at Station 10+50 G at an approximate depth of 48 inches crossing Gjertson Street and at an approximate depth of 30 inches at proposed storm sewer crossing at Station 405+55 NB RT. Discontinue existing crossing in area of proposed crossing.
- Install new 4-inch gas main from Station 418+50 NB RT to Station 430+25 NB RT along the right of way line at a typical approximate depth of 36 inches. Install at an approximate depth of 4 to 4.5 feet from Station 427+00 NB RT to Station 428+50 NB RT. Install at an approximate depth of 48 inches crossing Kings Lynn Road at north project limits. Discontinue existing gas main in area of proposed 4-inch gas main. Discontinue gas crossing at Station 419+50 NB.
- Install new service lateral at Station 422+25 NB at an approximate depth of 54 inches. Discontinue existing service lateral in area of proposed service lateral.
- Install new service lateral at Station 426+00 NB at an approximate depth of 60 inches. Discontinue existing service lateral in area of proposed service lateral.
- Install new service lateral at Station 427+25 NB at an approximate depth of 60 inches. Discontinue existing service lateral in area of proposed service lateral.
- Install new service lateral at Station 435+56 NB at an approximate depth of 48 inches. Discontinue existing service lateral in area of proposed service lateral.
- Install new 4-inch gas main from Station 442+50 SB LT to the east side of Hoel Avenue behind pond CX1, 1 foot off the existing right of way line at an approximate depth of 48 inches.
- Install new 4-inch high pressure gas main 16 feet off of the right of way line west of pond CX5 at an approximate depth of 48 inches.
- Install new 4-inch gas main crossing at Station 464+25 NB at an approximate depth of 96 inches under USH 51 and an approximate depth of 48 inches east of USH 51. Discontinue existing gas main crossing in area of proposed gas main crossing.
- Install new 4-inch gas main along back of proposed sidewalk from Station 463+40 NB LT to Station 475+50 NB LT at a typical approximate depth of 48 inches. Install at a depth of 24 inches from Station 467+75 NB LT to 468+00 NB LT. Discontinue existing gas main in area of proposed 4-inch gas main.
- Install new 4-inch gas main along the right of way line from Station 466+00 NB LT to Station 475+00 NB LT at an approximate depth of 48 inches. Discontinue existing gas main in area of proposed 4-inch gas main.
- Install new 4-inch gas main crossing at Station 476+00 NB at an approximate elevation of 907.00 feet. Discontinue existing gas main crossing in area of proposed gas main crossing.

Alliant Energy – Gas started this work in November 2025 and plans to complete it within approximately 60 working days.

AT&T Wisconsin - Communication has underground fiber optic that runs parallel to USH 51 from approximately Station 417+50 NB to Station 440+64 NB RT, Station 425+29 NB to Station 429+12 NB LT, and Station 458+06 NB to Station 465+25 NB LT. Underground fiber optic crosses USH 51 at approximately Station 429+12 NB and Station 438+90 NB. Underground fiber optic crosses the north leg of Kings Lynn Road and the west leg of Jackson Street. AT&T has underground telephone lines that run parallel to USH 51 from approximately Station 416+98 NB to Station 443+40 NB LT, Station 458+06 NB to Station 465+25 NB LT, Station 475+80 NB to Station 486+52 NB LT, and Station 477+74 NB to Station 486+52 NB RT. Underground telephone lines cross USH 51 at approximately Station 416+98 NB, Station 431+54 NB, Station 463+10 NB, and Station 477+74 NB. Underground telephone lines cross Kings Street and the west leg of Jackson Street. AT&T Wisconsin plans to address the following conflicts prior to April 25, 2026:

- Relocate existing 400 pair cable at Station 418+75 NB LT by shifting 3 feet to the south to avoid conflict with proposed manhole.
- Remove existing pedestal L101-1 at Station 419+75 NB RT in conflict with proposed sidewalk.
- Relocate existing manhole 4010 at Station 420+25 NB RT by shifting north into proposed terrace to avoid conflict with proposed curb and gutter.
- Relocate existing 400 pair cable at Station 99+95 KG LT by shifting 3 feet to the south to avoid conflict with proposed inlet.
- Adjust existing 400 pair cable crossing at Station 419+77 NB by raising line to an approximate elevation of 897.00 feet to avoid conflict with proposed storm sewer.
- Remove existing pedestal L101-2 at Station 423+35 NB RT in conflict with proposed sidewalk.
- Discontinue existing 400 pair cable crossing at Station 425+25 NB and install with new 400 pair cable crossing at an approximate depth of 5 feet.
- Remove existing 100 pair cable and pedestal L106-1 from Station 428+75 NB RT to Station 429+45 NB RT in conflict with proposed sidewalk.
- Relocate existing handhole HH1712 and pedestal PED1712 at Station 431+25 NB by shifting 1 foot off back of sidewalk.
- Adjust two existing 400 pair cables to an approximate elevation of 922.50 feet at Station 431+60 NB LT to avoid proposed storm sewer.
- Relocate existing handhole HH1801 and pedestal L100-6 at Station 434+85 NB LT by shifting 1 foot off back of sidewalk.
- Relocate existing handhole HH1925 at Station 438+85 NB LT by shifting 1 foot off back of sidewalk.
- Remove existing 200 pair cable crossing and pedestal at Station 463+10 NB RT to avoid conflict with proposed storm sewer.
- Discontinue existing 900 pair cable from Station 463+45 NB LT to Station 471+50 NB LT and install new 900 pair cable along east right of way line to avoid conflict with proposed storm sewer and pond AX2.
- Discontinue existing 900 pair cable crossing at Station 470+80 NB and install new 900 pair crossing at a typical approximate depth of 10 feet and at an approximate depth of 13 feet in area of proposed storm sewer.
- Remove exiting manhole at Station 470+75 NB LT to avoid conflict with proposed pond AX2.
- Relocate existing 100 pair cable from Station 476+50 NB LT to Station 481+00 NB LT to 3 feet off proposed back of sidewalk at an approximate depth of 36 inches.
- Remove existing pedestal F1471 at Station 477+75 NB LT.
- Remove existing pedestal at Station 482+96 NB LT.

AT&T Wisconsin will address conflicts at the following locations during construction:

- Lower existing 400 pair cable crossing at Station 418+25 NB to an approximate depth of 60 inches. Notify utility in advance of when work can be completed. This work is anticipated to take 1 working day.
- Adjust existing manhole cover at Station 420+25 NB RT. Notify utility in advance of when work can be completed. This work is anticipated to take 1 working day.
- Lower existing 24 fiber at Station 428+90 NB to an approximate depth of 48 inches and adjust handhole. Notify utility in advance of when work can be completed. This work is anticipated to take 2 working days.
- Lower existing lateral cable at Station 10+52 KL RT and shift handhole. Notify utility in advance of when work can be completed. This work is anticipated to take 1 working day.
- Lower two existing 400 pair cable from Station 429+05 NB LT to Station 430+10 NB LT to an approximate depth of 48 inches and adjust handhole. Notify utility in advance of when work can be completed. This work is anticipated to take 2 working days.
- Lower existing 24 fiber at Station 430+39 NB RT to an approximate depth of 55 inches. Notify utility in advance of when work can be completed. This work is anticipated to take 1 working day.
- Adjust existing manhole cover at Station 431+72 NB RT. Notify utility in advance of when work can be completed. This work is anticipated to take 1 working day.
- Adjust existing 24 fiber at Station 438+90 NB LT. Notify utility in advance of when work can be completed. This work is anticipated to take 1 working day.
- Relocate existing 6 duct package at Station 440+27 NB LT by shifting 2 feet to the south. Notify utility in advance of when work can be completed. This work is anticipated to take 2 working days.
- Vacuum expose and spot adjust facilities at the following light bases: LB126, LB128, LB130, LB132, LB134, LB136, LB137, LB138, LB139, LB140, LB141, LB142, and LB143. Notify utility in advance of when work can be completed. This work is anticipated to take 1 working day at each location.
- Vacuum expose and spot adjust facilities at the following signal bases: SB203, SB208, SB210, and SB212. Notify utility in advance of when work can be completed at each signal base location. This work is anticipated to take 1 working day at each location.

City of Stoughton Utilities - Electricity has overhead facilities that run parallel to USH 51 from approximately Station 396+30 NB to Station 398+61 NB LT, Station 466+74 NB to Station 475+81 NB LT, Station 419+25 NB to Station 434+22 NB RT, and Station 435+35 NB to Station 443+00 NB RT. Overhead facilities cross USH 51 at approximately Station 398+56 NB, Station 401+95 NB, Station 402+40 NB, Station 404+75 NB, Station 415+80 NB, Station 435+38 NB, and Station 475+81 NB. Overhead facilities cross the south leg of Harrison Street, both the north and south leg of South Gjertson Street, Hamilton Street, and Kings Lynn Road. Overhead facilities are also present within the grading limits of the stormwater infiltration area in the south quadrant of the STH 138 roundabout and McComb Road. Underground facilities run along USH 51 from approximately Station 424+90 NB to Station 425+10 NB RT, Station 431+50 NB to Station 434+20 NB RT, Station 457+55 NB to Station 462+92 NB RT, Station 475+90 NB to Station 478+69 NB RT, Station 462+92 NB to Station 466+45 NB LT, Station 468+43 NB to Station 469+62 NB LT, and Station 479+50 NB to Station 482+90 NB LT. Underground facilities cross USH 51 at approximately Station 427+10 NB, Station 431+50 NB, Station 438+92 NB, Station 462+92 NB, Station 469+62 NB, and Station 481+70 NB. Underground facilities cross the west leg of Jackson Street. Underground facilities are also present within the grading limits of the stormwater infiltration areas in the southeast quadrant of the Hoel Avenue roundabout and in the south quadrant of the STH 138 roundabout. City of Stoughton Utilities - Electricity plans to address the following conflicts prior to March 15, 2026:

- Station 394+90 NB LT: Temporary relocate existing pole (5D 16/46) behind existing sidewalk.
- Station 396+15 NB LT: Temporary relocate existing pole (5D 12/46) behind existing sidewalk.
- Station 397+40 NB LT: Temporary relocate existing pole (5D 10/46) behind proposed sidewalk.
- Station 398+60 NB LT: Temporary relocate existing pole (5D 7/46) behind proposed sidewalk.
- Station 400+00 NB LT: Temporary relocate existing pole (5D 5/46) behind proposed sidewalk.

- Station 404+76 NB LT: Relocate existing pole (5C 54/48) 3 to 4 feet west to Station 404+72 NB LT.
- Station 405+96 NB RT: Remove existing pole. Bore new underground service outside of north project limits from pole on northeast corner of Gjertson Street and USH 51 across Gjertson Street to proposed meter pedestal on private property.
- Station 413+26 NB RT: Remove existing pole (5C 37/55).
- Station 416+25 NB RT: Relocate existing pole 5 to 6 feet north.
- Station 418+65 NB RT: Install new 45 foot pole (4C 23/2).
- Station 419+70 NB LT: Replace existing pole (5C 22/60) with new 40 foot pole. Install new underground line 1 to 2 feet off right of way line to Station 421+80 NB LT at an approximate depth of 36 inches.
- Station 419+75 NB RT: Remove existing pole (4C 22/2) and install new pole 3 to 4 feet behind sidewalk. Install new overhead line to new pole (5C 22/60).
- Station 421+15 NB RT: Remove existing pole (4C 19/2). Install new 45 foot pole 6 to 7 feet north of existing pole location. Remove overhead line to the south.
- Station 422+15 NB RT: Remove existing pole (4C 17/2). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 423+25 NB RT: Remove existing pole (4C 14/2). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 424+80 NB RT: Remove existing pole (4C 10/2). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 427+12 NB RT: Remove existing pole (4C 5/1). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 428+60 NB RT: Remove existing pole (4C 1/2). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 427+10 NB RT: Install new underground cable and splice pit.
- Station 430+25 NB RT: Remove existing pole (4B 58/1). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 431+20 NB RT: Remove existing pole (4B 57/2). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 431+50 NB: Discontinue underground crossing. Install new underground crossing at Station 432+10 NB at an approximate depth of 8 to 12 feet.
- Station 432+10 NB RT: Install new pole behind sidewalk.
- Station 432+80 NB RT: Remove existing pole (4B 52/2). Install new 45 foot pole 6 to 7 feet north of existing pole location. Install splice pit at base of new pole to tie new cables into existing cables.
- Station 434+18 NB RT: Remove existing pole.
- Station 435+30 NB RT: Remove existing pole (4B 47/2). Install new 45 foot pole 6 to 7 feet north of existing pole location.
- Station 436+30 NB RT: Install new pole.
- Station 443+00 SB to Station 446+25 SB: Lower existing cables to an approximate depth of 5 to 6 feet to avoid conflict with ponds CX1 and CX2. Install new cables around southwest corner of pond CX1.
- Station 450+25 SB RT to Station 453+75 SB RT: Lower existing cables to an approximate depth of 5 to 6 feet. Discontinue existing service in middle of pond.
- Station 463+50 SB LT to Station 467+50 SB LT: Discontinue existing cables. Install new duct and cables 5 to 6ft east of right of way line at an approximate depth of 8 to 12 feet.

- Station 469+10 SB LT to Station 469+10 NB RT: Discontinue existing underground cables. Install new underground cable at an approximate depth of 6 to 8 feet.
- Station 469+10 SB LT: Remove existing pole (4EE 62/20). Install new 45 foot pole at existing pole location.
- Station 469+10 SB LT to Station 470+24 NB RT: Discontinue existing cables.
- Station 469+10 NB RT: Install splice pit at right of way line.
- Station 470+60 SB LT: Remove existing pole (4EE 62/22). Install new 45 foot pole at existing pole location.
- Station 471+25 SB LT: Remove power transformer and private metering facilities.
- Station 471+26 SB LT: Remove existing pole. Install new 45 foot pole at existing pole location.
- Station 472+88 SB LT: Remove existing pole (4EE 62/24). Install new 45 foot pole at existing pole location.
- Station 474+80 SB LT: Remove existing pole (4EE 62/26). Install new 45 foot pole at existing pole location.
- Station 475+80 NB RT: Remove existing pole. Install new 45 foot pole 5 feet east of existing pole location.

City of Stoughton Utilities - Electricity will address conflicts at the following locations during construction:

- Reinstall existing light poles after the temporary road has been removed and proposed road, curb and gutter, and sidewalk have been installed at the following locations: Station 394+90 SB LT, Station 396+15 SB LT, Station 397+40 SB LT, Station 398+60 SB LT, and Station 400+00 SB LT. Notify utility when work can be completed. This work is anticipated to take 3 working days to complete.
- Lower underground crossings in conflict with excavation below subgrade at the following locations: Station 427+10 NB, Station 432+10 NB, Station 438+80 NB, Station 463+50 SB LT to Station 467+50 SB LT, Station 469+10 SB, and 482+30 SB. Notify utility when work can be completed. This work is anticipated to take 1 working day to complete at each location.
- Lower underground facility below storm sewer at Station 478+25 NB RT. Notify utility when work can be completed. This work is anticipated to take 1 working day to complete.
- Adjust transformer to final grade at Station 479+00 SB LT. Notify utility when work can be completed. This work is anticipated to take 1 working day to complete.

City of Stoughton Utilities - Sewer facilities that are within the construction limits of Project ID 5845-16-73 will be completed under the bid items of Project ID 5845-16-83. There are no other known utility conflicts within the construction limits. Refer to Project 5845-16-83 for information regarding City of Stoughton Utilities sewer plans to address identified conflicts.

City of Stoughton Utilities - Water facilities that are within the construction limits of Project ID 5845-16-73 will be completed under the bid items of Project ID 5845-16-83. There are no other known utility conflicts within the construction limits. Refer to Project 5845-16-83 for information regarding City of Stoughton Utilities water plans to address identified conflicts.

MCI Communications - Communication has underground fiber optic that runs parallel to USH 51 from approximately Station 428+75 NB to Station 437+57 NB RT and Station 465+38 NB to Station 483+67 NB RT. Underground fiber optic crosses USH 51 at approximately Station 437+57 NB. Underground fiber optic crosses Kings Lynn Road. MCI will address conflicts at the following locations:

Relocation # 1: MCI will do the following. Relocate existing HH at Station 429+80 Rt 33’ to Station 429+80 Rt 44’. Locate, expose and swing existing Duct FO coming from the north along Kings Lynn into new placed HH. Construct new Duct/FO from new HH location extending west in the north ROW for approx. 900’. 12’ minimum depth required to cross under 12” at Station 429+50 Rt 40’. Relocate existing HH at Station 435+56 Rt 30’ north to Station 437+70 Rt 53’. Continue directional drill south under USH 51 – 10’ minimum depth to cross under 24” storm at Station 437+70 Lt 18’ to new HH location at Station 437+70 Lt 39’. Adjust HH to final grade during construction. Station 459+6 Rt 50’ will be adjusted to final grade during construction.

Relocation #2: MCI will do the following. Move existing MCI HH at Station 465+38 Rt 48’ to Station 465+48 Rt 48’ & adjusted to final grade during construction. Directional bore new duct/FO from new HH extending north along the east ROW for approx. 588’ to existing MCI HHVLB11 at Station 471+30 Rt 52’. HH will be adjusted to final grade during construction. MCI HHVLB12 at Station 475+77 Rt 35’ will be moved to Station 475+77 Rt 44’. Station 476+92 Rt 30’ Duct/FO will be located, exposed and shifted 3’ east to avoid light pole. Station 478+92 Rt 30’ Duct /FO will be located, exposed and shifted 3’ east to avoid light pole. MCI HHVLB13 at Station 479+81 Rt 35’ will be moved to Station 479+81 Rt 44’ to clear new sidewalk/path. Expose and swing existing duct/FO into new HH location.

Minimum depth in ROW is 48” unless otherwise specified.

Except for final adjustments as noted above, this work is anticipated to be completed prior to construction.

Spectrum - Communication has overhead fiber optic lines that run parallel to USH 51 on City of Stoughton Utilities poles from approximately Station 397+45 NB to Station 435+44 NB. Spectrum has underground fiber optic that runs parallel to USH 51 from approximately Station 416+13 NB to Station 425+13 NB RT, Station 476+00 NB to Station 486+65 NB RT, and Station 458+31 NB to Station 484+83 NB LT. Underground fiber optic crosses USH 51 at approximately Station 425+13 NB and Station 477+82 NB. Underground fiber optic crosses the west leg of Jackson Street. Spectrum has underground television lines that run parallel to USH 51 from approximately Station 417+00 to Station 425+20 NB RT and Station 431+25 to Station 438+50 NB RT. Underground television lines cross USH 51 at approximately Station 425+16 NB. Spectrum will address conflicts at the following locations:

- Station 397+45 NB to Station 435+44 NB: Transfer existing aerial attachments and risers to new poles placed by City of Stoughton Utilities - Electricity.
- Station 416+13 NB to Station 425+13 NB RT: Place new cable and duct at an approximate depth of 48 inches from existing grade to be out of conflict. Remove and replace existing pedestals out of conflict.
- Station 425+15 NB: Crossing to be replaced at an approximate depth of 84 inches.
- Station 425+13 NB to Station 427+10 NB LT: Place new cable and duct from pedestal to proposed bore pit at a typical depth of 84 inches and an approximate depth of 11 feet at the proposed storm sewer crossing.
- Station 426+46 NB: Crossing to be removed.
- Station 427+10 NB: Crossing to be removed.
- Station 431+56 NB: Crossing to be replaced at an approximate depth of 78 inches.
- Station 437+60 NB: Crossing to be replaced at an approximate depth of 78 inches.
- Station 434+75 NB to Station 437+60 NB LT: Place new 2-inch ducts to existing relocated vault at Station 434+80 at an approximate depth of 42 inches.
- Station 434+80 NB LT: Vault to be relocated out of conflict of the new sidewalk.
- Station 437+50 NB: Crossing to be replaced at an approximate depth of 78 inches. Replacement continues behind proposed pond at an approximate depth of 78 inches.
- Station 437+60 NB LT: Vault to be removed.
- Station 442+06 NB: Spectrum crossing to be replaced at an approximate depth of 72 inches.
- Station 477+70 NB to Station 479+00 NB LT: Place new cable and duct at an approximate depth of 48 inches. Remove existing pedestal at Station 478+86 NB LT.
- Station 477+70 NB to Station 480+00 NB RT: Place new cable and duct at an approximate depth of 48 inches. Remove existing pedestals at Station 477+73 NB RT and Station 479+75 NB RT. Remove vault at Station 479+80 NB RT.
- Station 477+70 NB: Place new cable and duct crossing USH 51 at a typical approximate depth of 54 inches and an approximate depth of 10 feet at the proposed storm sewer crossing.

Spectrum plans to begin this work in December 2025 and complete it within approximately 60 working days.

TDS Metrocom LLC - Communication has underground fiber optic that runs parallel to USH 51 from approximately Station 400+13 NB to Station 441+52 NB RT and Station 480+76 NB to Station 486+67

NB RT. Underground fiber optic crosses USH 51 at approximately Station 404+69 NB, Station 419+72 NB, and Station 431+17 NB. Underground fiber optic crosses the north leg of South Van Buren Street, the north leg of South Gjertson Street, Hamilton Street, and Kings Lynn Road. TDS will address conflicts at the following locations:

- Station 405+00 NB RT: Located, expose, and excavate the existing conduit with 144F fiber optic cable in the grass just west of the driveway near Station 407+00 NB RT and install a new handhole on top of the exposed duct. At the new handhole, begin directional bore shot about 200 feet east to go around the storm sewer and curb and gutter work, and reconnect into the existing TDS handhole on the east side of South Gjertson Street at a depth of 36 to 40 inches to avoid conflict with existing water and sanitary lines. TDS will pull back and remove 144F fiber optic cable out of the duct in conflict. The empty duct will be discontinued in place.
- Station 419+75 NB RT: Relocate fiber optic pedestal 3 feet north, outside of the proposed sidewalk improvements.
- Station 402+00 NB RT: Intercept 1.25-inch conduit with 144F fiber optic cable near Station 402+00 NB RT, locate, remove sidewalk panel, and expose conduit. Place a new handhole in the grass further to the north (outside of the project limits), along the west side of South Van Buren Street. Bore shot from an existing fiber pedestal further north along the west side of South Van Buren Street to the exposed conduit. Discontinue the existing conduit that crosses underneath the north leg of South Van Buren Street.
- Station 427+20 NB RT: Relocate existing pedestal (PED DA-6000 005) 3 to 5 feet north.
- Station 431+35 NB RT: Relocate existing pedestal (PED DA-6000 004) 3 to 5 feet north.
- Station 427+20 NB to Station 431+35 NB RT: Bore new 1.25-inch duct from pedestal (PED DA-6000 005) to pedestal (PED DA-6000 004) at an approximate depth of 10 feet.
- Station 427+20 NB: Bore new 1.25-inch duct crossing from pedestal (PED DA-6000 005) to pedestal (PED DA-6000 005D) at an approximate depth of 11 feet.

TDS Metrocom LLC plans to begin this work in December 2025 and complete it within approximately 14 working days.

Project 5845-16-74

This project ID comes under the provision of Administrative Rule Trans 220.

The utility work plan includes additional detailed information regarding the location of known discontinued, relocated, or removed utility facilities. These can be requested from the department during the bid preparation process, or from the project engineer after the contract has been awarded and executed.

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the prior work will be completed and the site will be available to the utility. Follow-up with a confirmation notice to the engineer and the utility not less than 3 working days before the site will be ready for the utility to begin its work.

stp-107-065 (20240703)

The following utility companies have facilities within the project area.

Alliant Energy - Electricity has overhead facilities that run parallel to USH 51 from approximately Station 669+95 NB to Station 679+00 NB RT. Overhead facilities cross USH 51 at approximately Station 673+30 NB. Overhead facilities cross Colladay Point Drive. Underground facilities cross USH 51 at approximately Station 672+15 NB. Alliant Energy will address conflicts at the following locations:

- Station 670+00 NB RT: Shift existing street light pole away from proposed culvert location.
- Station 672+15 NB: Underground facilities crossing USH 51 to be discontinued. Install new 2-inch duct at crossing at an approximate depth of 4 to 5 feet to avoid grade cuts.

Alliant Energy - Electricity plans to begin this work in December 2025 and complete it within approximately two working days.

Alliant Energy - Gas has underground lines that run parallel to USH 51 from approximately Station 487+00 NB to Station 489+40 NB RT, Station 486+00 NB to Station 504+35 NB LT, Station 660+75 NB to Station 664+10 NB LT, and Station 662+50 NB to Station 664+10 NB RT. Underground gas lines cross USH 51 at approximately Station 489+40 NB, Station 503+65 NB, Station 530+85 NB, Station 592+75 NB, Station 664+10 NB, and Station 675+00 NB. Underground gas line runs parallel to Greenbriar Drive from approximately Station 20+00 RD to Station 24+71 RD RT. Underground gas line runs parallel to CTH B from approximately Station 9+50 B to Staton 17+19 B LT. Alliant Energy will address conflicts at the following locations:

- Station 489+30 SB to Station 490+90 SB LT: 4-inch steel high pressure main to be relocated about 25 feet west within the existing Alliant Energy easement area to move away from proposed storm sewer along the west right of way. New main to be installed at an approximate depth of 48 inches from current grade. Discontinue existing main in area of proposed high pressure main.
- Station 489+30 SB: Window to be cut into existing 6HDPE crossing to provide clearance around new storm crossing. Window to extend approximately 7.5 feet deep from current grade to top of new gas main and approximately 10 feet on either side of new storm pipe.
- Station 491+00 SB LT: Existing valves to be raised about 2 feet to match final grade.
- Station 491+80 SB to Station 502+00 SB LT: Install new 4HDPE along west proposed right of way limits at a typical approximate depth of 36 inches and at a depth of 60 inches from Station 497+00 SB LT to Station 502+00 SB LT. Existing main to be discontinued prior to construction.
- Station 502+00 SB: Install new 4HDPE crossing at an approximate elevation of 924.00 feet.
- Station 502+00 NB RT to 21+00 RD RT: Install new 4HDPE along east proposed right of way limits. Tie into existing 4HDPE at Station 21+00 RD RT.
- Station 7+00 B to Station 19+25 B LT: New 4HDPE to be installed along the new north right of way limits starting at Station 19+25 B and extending west to the CTH B roundabout. New service lateral crossing USH 51, north of the roundabout, near Station 531+40 SB to 1713 USH 51 property at an approximate depth of 60 inches from grade.
- Station 592+50 SB: Existing crossing near Station 592+50 SB to be relocated west along the existing right of way limits with a new crossing at Station 593+50 SB. Install new 2-inch main at an approximate elevation of 857.00 feet. Discontinue existing crossing.
- Station 639+20 SB: Existing crossing near Station 639+20 SB to be relocated south with a new crossing at Station 639+00 SB. Install new 2-inch main at an approximate elevation of 853.00 feet. Discontinue existing crossing.
- Station 664+40 SB: Existing 2S high pressure crossing at Station 664+40 SB and extending along east and west right of way limits of Schneider Drive and Barber Drive to be discontinued. New crossing at Station 657+50 SB and at Schneider Drive limits to be installed and tie into existing mains. Install new gas crossing at Station 657+50 SB at an approximate elevation of 847.50 feet. Install new gas crossing at Schneider Drive limits at an approximate depth of 48 inches.
- Station 675+25 SB: Existing 1/2-inch P service lateral to be lowered to an approximate depth of 5.5 feet and relocated on the south side of USH 51 near Station 675+25 SB to right of way limits.

Alliant Energy - Gas started this in November 2025 and plans to complete it within approximately 60 working days.

Alliant Energy - Gas will address conflicts at the following locations during construction:

- Station 14+00 RD RT to 502+00 SB LT: Install new 4HDPE along west and south proposed right of way limits after grade cuts have been made. Tie into existing 4HDPE at Station 14+50 RD RT. Notify utility when work can be completed. This work is anticipated to take 5 working days.

AT&T Wisconsin - Communication has underground fiber optic that runs parallel to USH 51 from approximately Station 493+75 NB to Station 497+75 NB RT, Station 530+50 NB to Station 564+40 NB, Station 563+10 NB to Staton 592+20 NB LT/RT, Station 592+20 NB to Station 679+00 NB RT, and Station 670+00 NB to Station 675+30 NB LT. Underground fiber optic crosses USH 51 at approximately Station 563+10 NB, Station 592+20 NB, Station 657+45 NB, and Station 675+30 NB. Underground fiber optic runs parallel to Rutland-Dunn Towline Road from approximately Station 14+00 RD to Station 19+00 RD LT. Underground fiber optic runs parallel to CTH B from approximately Station 10+50 B to Station

17+19 B LT. Underground fiber optic crosses Greenbriar Drive at approximately Station 20+10 RD, South Brooklyn Drive, South Quam Drive, Quam Drive, Lake Kegonsa Road, Schneider Drive, and Colladay Point Drive. Underground communication line runs parallel to USH 51 from approximately Station 487+00 NB to Station 504+60 NB RT. Underground communication line crosses Greenbriar Drive at approximately Station 20+10 RD, crosses USH 51 at approximately Station 504+50 NB, and runs west along the north side of Rutland-Dunn Towline Road. AT&T Wisconsin will address conflicts at the following locations:

- Station 495+60 NB to 497+10 NB RT: Expose existing 200 pair cable and retrench within 5 feet of east right of way line at an approximate depth of 42 inches.
- Station 497+20 NB: Discontinue existing 50 pair cable crossing. Install new 50 pair cable crossing at Station 497+00 NB at an approximate depth of 72 inches. Discontinue the existing crossing.
- Station 497+00 NB LT to west project limits at Rutland Dunn Townline Road: Discontinue existing 50 pair cable. Install new 50 pair cable within 2 feet of proposed right of way line at a typical approximate depth of 72 inches and a depth of 12 feet from Station 15+50 RD RT to Station 17+50 RD RT. Remove existing pedestals at Station 499+66 NB LT and Station 17+80 RD LT.
- Station 19+21 BD LT to 680+11 NB RT: Discontinue existing 48 fiber. Bore new 48 fiber within 5 feet of proposed right of way line at an approximate depth of 72 inches.
- Station 547+98 NB (150 feet RT): Install new handhole.
- Station 552+31 NB RT: Adjust existing pedestal to proposed grade.
- Station 556+78 NB RT: Adjust existing pedestal to proposed grade.
- Station 562+65 NB RT: Remove existing handhole.
- Station 563+80 NB (138 feet RT): Install new handhole.
- Station 576+47 NB RT: Adjust existing pedestal to proposed grade.
- Station 577+90 NB RT: Adjust existing pedestal to proposed grade.
- Station 579+00 NB to Station 588+00 NB RT: Discontinue existing 400 pair cable. Install new 400 pair cable in same trench as proposed 48 fiber.
- Station 592+85 NB (230 feet RT): Install new handhole.
- Station 593+97 NB RT: Remove existing handhole.
- Station 657+43 NB RT: Remove existing handhole.
- Station 662+50 NB (60 feet RT): Install new handhole.
- Station 669+32 NB (125 feet RT): Install new handhole.
- Station 676+80+90 NB RT: Adjust existing pedestal to proposed grade.
- Station 680+11 NB (28 feet RT): Install new handhole.

AT&T Wisconsin plans to begin work in December 2025. AT&T Wisconsin - Communication work that has been identified to be in conflict with the Project ID 5845-16-74 2026 construction work is anticipated to be completed by April 15, 2026. The remaining AT&T Wisconsin - Communication work is anticipated to be completed by May 29, 2026, ahead of the Project ID 5845-16-74 2027 construction work.

City of Stoughton Utilities - Electricity has overhead facilities that run parallel to USH 51 from approximately Station 491+70 NB to Station 562+70 NB RT and Station 562+70 NB to Station 592+05 NB LT. Overhead facilities cross USH 51 at approximately Station 530+35 NB, Station 549+30 NB, Station 562+70 NB, Station 592+05 NB, Station 503+65 NB, Station 530+40 NB, Station 581+75 NB, Station 636+95 NB, Station 645+15 NB, and Station 658+20 NB. Overhead facilities run parallel to CTH B from approximately Station 10+75 B to Station 17+19 B RT. Overhead facilities run parallel to Rutland-Dunn Townline Road from approximately Station 14+00 RD to Station 17+75 RD LT, crosses Rutland-Dunn Townline Road at approximately Station 17+75 RD, and runs parallel to Rutland-Dunn Townline Road from approximately Station 17+75 RT to Station 20+20 RD RT. Overhead facilities run parallel to the west side of Lake Kegonsa Road from approximately Station 621+15 NB to Station 623+10 NB RT. Overhead facilities cross Greenbriar Drive at approximately Station 20+10 RD, CTH B at approximately Station 10+75 B, South Brooklyn Drive, and South Quam Drive. Underground facilities run parallel to USH 51 from approximately Station 488+20 NB to Station 489+25 NB LT, Station 493+25 NB to Station

494+70 NB RT, Station 501+65 NB to Station 503+50 NB RT, and Station 548+65 NB to Station 549+30 NB LT. Underground facilities cross USH 51 at approximately Station 489+25 NB. Underground facilities run parallel to Greenbriar Drive from approximately Staton 20+10 RD to Station 24+71 RD RT. City of Stoughton Utilities will address conflicts at the following locations:

- Station 489+20 NB LT: Junction box (4EE 60/45) to be raised to final grade.
- Station 493+10 NB RT: Pole (3B 5/35) to be removed. Discontinue existing underground cables to the east.
- Station 493+75 NB RT: Pole (3B 5/36) to be removed. Discontinue existing underground cables to the east.
- Station 495+75 NB RT: Pole (3B 4/40) to be removed.
- Station 498+60 NB RT: Pole (3B 4/45) to be removed. Discontinue existing underground cables to the east.
- Station 500+00 NB to Station 503+75 NB RT: Discontinue existing underground line.
- Station 501+50 NB RT to Station 22+25 RD RT: Discontinue existing underground line.
- Station 501+75 NB RT: Pole (3B 5/54) to be removed.
- Station 503+64 NB: Remove overhead lines.
- Station 503+75 NB RT: Pole (3B 5/59) to be removed. Discontinue existing underground line.
- Station 505+60 NB RT: Pole (2B 2/4) to be removed.
- Station 507+70 NB RT: Pole (2B 2/8) to be removed.
- Station 509+80 NB RT: Pole (2B 2/13) to be removed.
- Station 511+94 NB RT: Pole (2B 2/18) to be removed.
- Station 514+00 NB RT: Pole (2B 3/22) to be removed.
- Station 514+00 SB LT: Pole (3EE 62/11) to be removed.
- Station 516+00 NB RT: Pole (2B 3/27) to be removed.
- Station 518+00 NB RT: Pole (2B 3/31) to be removed.
- Station 520+15 NB RT: Pole (2B 3/36) to be removed.
- Station 522+15 NB RT: Pole (2B 3/40) to be removed.
- Station 524+30 NB RT: Pole (2B 4/45) to be removed.
- Station 526+50 NB RT: Pole (2B 4/50) to be removed.
- Station 514+00 NB RT: Pole (2B 3/22) to be removed.
- Station 527+40 NB RT: New pole (1/0 ACSR) added to move line west across USH 51.
- Station 527+50 NB to Station 527+60 NB RT: Add new overhead lines.
- Station 527+60 SB LT: New pole (1/0 ACSR) added to move line west across USH 51 and north across the western leg of the roundabout.
- Station 527+60 NB to Station 530+90 NB LT: Add new overhead lines.
- Station 527+90 NB RT: Pole (2B 5/54) to be removed.
- Station 528+75 NB RT: Add new 55-foot pole (2B 5/59).
- Station 528+75 NB to Station 531+11 NB RT: Install new overhead lines.
- Station 529+60 NB RT: Remove pole (2B 5/59).
- Station 530+50 NB: Remove overhead lines.
- Station 530+90 SB LT: Add new 45-foot pole (3EE61/31).
- Station 531+00 NB RT: Add new 50-foot pole (3FF 3/31).

- Station 531+60 NB RT: Remove pole (3FF 3/31).
- Station 12+60 B RT: Add new 45-foot pole.
- Station 14+50 B RT: Add new 45-foot pole.
- Station 16+35 B RT: Add new 45-foot pole.
- Station 541+90 NB RT: Remove existing pole (3EE 53/39). Add new 45-foot pole.
- Station 543+90 NB RT: Remove existing pole (3EE 51/41). Add new 45-foot pole.
- Station 545+50 NB RT: Remove existing pole (3EE 49/42). Add new 45-foot pole.
- Station 545+55 SB LT: Pole (3EE 49/42) to be removed.
- Station 548+75 SB LT: Relocate customer owned meter pedestal.
- Station 549+30 SB LT: Pole (4EE 45/45) to be removed. Add new 45-foot pole with 8 foot crossarm 5 to 10 feet south of existing pole.
- Station 549+30 NB RT: Remove existing pole (3EE 45/45). Add new 45-foot pole.
- Station 551+25 NB RT: Remove existing pole (3EE 43/46). Add new 45-foot pole.
- Station 558+85 NB RT: Remove existing pole. Add new 45-foot pole.
- Station 560+80 NB RT: Remove existing pole (3EE 35/53). Add new 40-foot pole 10 to 15 feet west of existing pole.
- Station 562+80 SB LT: Remove pole (3EE 32/52).
- Station 562+90 SB LT: Add new 50-foot pole.
- Station 564+76 SB LT: Pole (3EE 30/54) to be removed. Add new 45-foot pole 5 to 10 feet southwest of existing pole.
- Station 566+50 SB LT: Remove pole (3EE 28/55).
- Station 567+40 SB LT: Add new 45-foot pole.
- Station 568+28 SB LT: Remove pole (3EE 26/55).
- Station 569+44 SB LT: Add new 45-foot pole.
- Station 567+00 SB LT: Remove pole (3EE 24/56).
- Station 571+72 SB LT: Remove pole (3EE 22/57).
- Station 571+80 SB LT: Add new 45-foot pole.
- Station 573+50 SB LT: Remove pole (3EE 20/58).
- Station 573+80 SB LT: Add new 45-foot pole.
- Station 575+30 SB LT: Remove pole (3EE 18/59).
- Station 576+00 SB LT: Add new 45-foot pole.
- Station 577+00 SB LT: Remove pole (3EE 17/60).
- Station 578+10 SB LT: Add new pole.
- Station 578+76 SB LT: Remove pole (2EE 15/1).
- Station 580+48 SB LT: Pole (2EE 13/2) to be removed. Add new 45-foot pole 2 feet inside right of way line.
- Station 581+75 NB RT: Remove pole (2EE12/4). Add new 45-foot pole.
- Station 581+80 SB LT: Remove pole (2EE 12/2).
- Station 582+40 SB LT: Add new 45-foot pole.
- Station 583+50 SB LT: Add new 45-foot pole.
- Station 583+84 SB LT: Remove pole (2EE 10/3).

- Station 585+28 SB LT: Add new 45-foot pole with riser.
- Station 585+28 to Station 592+12 SB LT: Install underground cables at an approximate depth of 3 to 4 feet.
- Station 585+50 SB LT: Remove pole (2EE 9/3).
- Station 586+70 SB LT: Remove pole (2EE 8/4).
- Station 588+40 SB LT: Remove pole (2EE 6/5).
- Station 590+10 SB LT: Remove pole (2EE 5/5).
- Station 592+06 SB LT: Remove pole (2EE 3/6).
- Station 592+12 SB LT: Add new pole (2EE 3/6) with riser.
- Station 592+12 SB LT: Remove pole (2EE 3/5).
- Station 592+12 SB LT to Station 592+13 NB RT: Replace existing overhead lines with larger wire.
- Station 592+13 NB RT: Add new 50-foot pole.
- Station 622+00 NB RT: Pole (2DD 33/20) to be removed. Add new 40-foot pole 20 feet north.
- Station 636+75 SB LT: Remove pole (2DD 25/35). Add new 45-foot pole.
- Station 658+00 NB RT: Remove pole (2DD 25/60). Add new 40-foot pole 2 feet south of existing pole.

City of Stoughton Utilities - Electricity plans to begin work in December 2025. City of Stoughton Utilities - Electricity work that has been identified to be in conflict with the Project ID 5845-16-74 construction 2026 work is anticipated to be completed by March 13, 2026. The remaining AT&T Wisconsin - Communication work is anticipated to be completed by August 14, 2026, ahead of the Project ID 5845-16-74 2027 construction work.

City of Stoughton Utilities - Electricity will address conflicts at the following locations during construction:

- Station 16+65 RD LT: Add new pole after excavation is completed.
- Station 16+65 RD to Station 16+85 RD LT: Install new underground cable at an approximate depth of 3 to 4 feet after excavation is completed.
- Station 16+85 RD LT: Add new 40-foot pole (3EE 61/11) after excavation is completed.
- Station 16+85 RD LT to Station 50+50 SB LT: Install new underground cable to WisDOT street light controller at an approximate depth of 3 to 4.
- Station 16+85 RD LT to Station 17+50 RD RT: Install new overhead wire after excavation is completed.
- Station 17+50 RD RT: Install new 35-foot pole (3EE 60/59) after excavation is completed.
- Station 17+80 RD LT: Remove pole after excavation is completed.
- Station 17+90 RD RT: Remove existing pole (3EE 60/59) after excavation is completed.
- Station 18+75 RD RT: Remove existing pole (4EE 61/69) after excavation is completed.

Notify utility when work can be completed. This work is anticipated to take 4 working days to complete.

City of Stoughton Utilities - Sewer has a sanitary line that crosses USH 51 at approximately Station 497+40 NB. No conflicts are anticipated with this facility.

City of Stoughton Utilities - Water has a water main that crosses USH 51 near Station 497+60 NB and runs parallel to USH 51 from approximately Station 497+50 NB to Station 501+75 NB LT. No conflicts are anticipated with this facility.

Kegonsa Sanitary District - Sewer has sanitary force main that runs parallel to USH 51 from approximately Station 656+25 NB to Station 658+65 NB LT and Station 660+00 NB to Station 679+00 NB RT. Force main crosses USH 51 at approximately Station 593+40 NB, Station 636+85 NB, and Station 656+25 NB. Force main crosses Schneider Drive, as well as Barber Drive roadway improvements at approximately Station 657+90 NB RT. Kegonsa Sanitary District will address conflicts at the following locations:

- Station 592+60 NB (110 feet LT): Raise existing manhole to proposed finished grade.
- Station 636+85 NB (110 feet LT): Field verify existing 4-inch force main depth. Place insulation or replace approximately 20 linear feet of 4-inch force main to accommodate 6-foot bury depth. Place air release manhole at the new force main high point.
- Station 627+00 NB (50 feet RT): Field verify existing 4-inch force main depth. Place insulation if necessary.
- Station 658+70 NB (140 feet LT): Raise existing manhole to proposed finish grade.
- Station 669+90 NB (125 feet RT): Adjust manhole easting to match proposed finish grade.

This work is anticipated to be completed during construction to match finished grades. All adjustments require coordination with the highway contractor. It is estimated that each location will take one working day to complete.

MCI Communications - Communication has underground fiber optic that runs parallel to USH 51 from approximately Station 487+00 NB to Station 563+10 NB RT and Station 563+10 NB to Station 679+00 NB LT. Underground fiber optic crosses USH 51 at approximately Station 504+50 NB, Station 563+10 NB, Station 592+20 NB, and Station 621+80 NB. Underground fiber optic runs parallel to Rutland-Dunn Townline Road from approximately Station 14+00 RD to Station 20+00 RD LT and CTH B from approximately Station 10+75 B to Station 17+19 B RT. Underground fiber optic crosses Greenbriar Drive at approximately Station 20+10 RD, CTH B at approximately Station 10+75 B, South Brooklyn Drive, Halverson Road, Lake Kegonsa Road, Charles Lane, and Schneider Drive. Underground communication line runs parallel to USH 51 from approximately Station 497+15 NB to Station 503+80 NB LT and Station 497+15 NB to Station 504+50 NB RT. Underground communication line crosses USH 51 at approximately Station 497+15 NB and Station 504+50 NB. Underground communication line runs parallel to Rutland-Dunn Townline Road from approximately Station 14+00 RD to Station 20+00 RD LT and Station 17+50 RD to Station 19+00 RD RT. Underground communication line crosses Greenbriar Drive at approximately Station 17+50 RD and Station 20+00 RD. MCI will address conflicts at the following locations:

- Relocation #1: Beginning at existing MCI HHVB15 in the east ROW at Station 493+75 NB, relocate HH 4’ east and 4’ north to clear sidewalk. Contractor to adjust HH to final grade during construction. Begin placement of new FO cable extending north to Greenbriar Dr. Continue north under Green Briar (min 5’ depth) and at Station 506+20 cross USH51 (min 5’ depth) to the west ROW. Continue southwest (12’ depth for a portion) to Rutland Dunn Townline Rd and extend west along the north ROW of Rutland & Dunn Townline Rd to Station 13+00 L42 and place new MCI HH in north ROW. Continue placement west to existing MCI HHVLB18RE in the north ROW.
- Relocation #2: Beginning at existing HHVLA16 located in the south ROW of CTH-B at the intersection CTH-B and Country Club Rd, directional bore east along CTH-B to Station 12+36BD. Min Depth 7’ from Station 13+00 to Station 15+50. Remove existing MCI HHVLA14. Cross under CTH-B (min 5’ depth under roadway) and continue west to Station 529+98 and place a new MCI HH. Continue north in the east ROW to Station 533+50NB & remove existing MCIHHVLA15. Place new MCI HH at Station 533+50NB R160’. Continue relocation north to the intersection of USH-51 and S Brooklyn Dr. Build into existing MCIHHVLA16. Continue Build north under S Brooklyn Dr (min 8’ depth under roadway) and north along the east ROW to Station 536+10NB R76 and place new MCI HH. Remove existing MCIHHVLA17. Continue west under (min 72” depth) USH 51 to West ROW and place new MCI HH at Station 536+10NB L102’. Remove existing MCIHHVLA17A. Continue build north along the west ROW to Station 591+52NB L104’ and place MCI HH. Remove existing MCI HHVLA179. Cross USH-51 to existing MCI HHVLA20 along Quam Dr.
- Relocation #3: Beginning at existing MCI HHVLA22(located at the intersection of barber Dr & Lake Kegonsa Rd) extend southwest crossing USH-51 (min 72” depth) and placing a NEW MCI HH at Station 622+35NB L123’. Remove existing HHVLA23. Continue North in the west ROW to Station 627+89NB L105’ and place new MCI HH. Remove Existing MCI HHVLA24. Continue North to Station 633+50 NB L115’ and place new HH. Remove existing MCI HHVLA26. Continue north to Station 639+90NB L103’ and place new HH (new HH will need to be adjusted to grade during construction, 1 day to complete). Remove existing MCI HHVLA27. Continue north to Station 649+50NB L65’ and place new MCI HH. Remove Existing MCI HHVLA28. Continue north to Station 661+50NB L87’ and place new HH. HH will need to be adjusted to depth during construction – 1 day to complete. Remove existing MCI HHVLA29. Continue north in the west

ROW to existing MCI HHVLA30 at Station 675+30NB – this HH will need to be lowered to match grade during construction. 1 day to complete.

Duct/FO placement will be minimum 48” in ROW unless noted above.

Duct/FO placement under roadway will be minimum 60” unless noted above.

This work is anticipated to be completed prior to construction, except where noted above.

Spectrum - Communication has underground fiber optic that runs parallel to USH 51 from approximately Station 487+00 NB to Station 529+75 NB RT, Station 488+00 NB to Station 493+75 NB LT, Station 664+20 NB to Station 679+00 NB RT. Underground fiber optic crosses USH 51 at approximately Station 493+75 NB and Station 664+20 NB. Underground fiber optic crosses Greenbriar Drive at approximately Station 20+10 RD. Underground fiber optic runs parallel to CTH B from approximately Station 10+75 B to Station 17+19 B RT. Overhead fiber optic crosses USH 51 at approximately Station 636+95 NB and Station 645+15 NB. Spectrum will address conflicts at the following locations:

- Station 485+00 NB: Bore fiber cable along RT side of right of way at an approximate depth of 4 feet, crossing Roby Road to Station 489+50 NB and place pedestal.
- Station 489+50 NB: Crossing USH 51, bore fiber at an approximate depth of 4 feet and an approximate depth of 7 feet at proposed storm crossing from pedestal to LT side of right of way and bore along right of way to Station 488+00 NB LT, ending at an existing pedestal.
- Station 489+50 NB: Bore fiber at an approximate depth of 4 feet to existing vault at Station 493+75 NB RT. Continue to existing vault at Station 495+72 NB RT. Continue to existing vault at Station 502+00 NB RT. Adjust vaults to proposed grade where needed.
- Station 502+00 NB: From Station 502+00 NB RT, continue bore along right of way at an approximate depth of 4 feet to a proposed vault along Greenbriar Drive at Station 21+40 RD RT. From the vault, continue east along Greenbriar Drive to an existing pedestal at Station 23+40 RD RT.
- Station 17+20 RD: Remove existing handhole. Place new handhole at Station 15+40 RD LT and bore fiber west at an approximate depth of 4 feet.
- Station 21+40 RD: Cross Greenbriar at an approximate depth of 4 feet to continue placement along USH 51. Cross USH 51 from RT side of USH 51 to LT side of USH 51 at Station 506+00 NB, and bore at an approximate depth of 14 feet to a new handhole near the right of way line at Station 506+80 NB LT. Continue placement at an approximate depth of 4 feet along the LT side of USH 51 to Station 528+20 NB. Place handhole at Station 528+20 NB LT and cross USH 51 to the RT side near the right of way. Discontinue existing fiber.
- Station 528+20 NB: From Station 528+20 NB RT, continue along the RT side of USH 51 near the right of way to approximately Station 528+70 NB RT. Continue boring east along the CTH B RT right of way at an approximate depth of 3 to 4 feet from approximately Station 10+50 B to a proposed handhole at Station 13+05 B. Cross from the RT side of CTH B to the LT side at an approximate depth of 5 feet to the right of way along CTH B, and then into the customer property.
- Station 664+25 NB: Place proposed pedestal along the LT side of USH 51 approximately 10 feet off the right of way. Cross USH 51 at an approximate depth of 5 feet at Station 664+25 NB and replace the existing pedestal with a vault/handhole and bore along the right of way to a pole at Station 673+20 NB RT. Discontinue existing fiber.
- Discontinue existing Spectrum cables at the following locations: Station 485+00 NB to Station 530+00 NB RT, Station 488+00 NB to Station 493+75 NB LT, Station 664+25 NB to Station 673+25 NB RT, Station 12+00 RD to Station 17+10 RD LT, and Station 20+00 RD to Station 23+50 RD RT.

Spectrum plans to begin this work in January 2026 and complete it within approximately 45 working days.

TDS Metrocom LLC - Communication has underground fiber optic that runs parallel to USH 51 from approximately Station 487+00 NB to Station 563+10 NB RT and Station 563+10 NB to Station 679+00 NB LT. Underground fiber optic crosses USH 51 at approximately Station 563+10 NB and Station 592+20 NB. Underground fiber optic crosses Greenbriar Drive at approximately Station 20+10 RD, CTH B at approximately Staton 10+75 B, South Brooklyn Drive, Halverson Road, Lake Kegonsa Road, Charles Lane, and Schneider Drive. Underground fiber optic runs parallel to CTH B from approximately Station 10+75 B to Station 17+19 B RT. Underground communication line runs parallel to USH 51 from

approximately Station 487+00 NB to Station 493+75 NB LT. Underground communication line crosses USH 51 at approximately Station 493+75 NB. TDS has facilities that are in conflict with sections of the roadway improvement project. TDS will address conflicts at the following locations:

- Station 676+90 NB to 673+00 NB RT: Relocate existing fiber from overhead poles to joint trench with Alliant Energy.
- Station 675+00 NB LT: Install new handhole.
- Station 675+00 NB to Station 657+75 NB LT: Bore fiber along right of way line at an approximate depth of 5 feet. At Station 672+25 NB LT, bore west to tie into existing cabinet. Continue boring new fiber south along right of way line from existing cabinet at an approximate depth of 5 feet to Station 672+25 NB LT. Trench fiber at an approximate depth of 3 feet from Station 672+25 NB LT to Station 659+00 NB LT. Install new handhole at Station 669+00 NB LT. Bore fiber at an approximate depth of 5 feet from Station 659+00 NB LT to existing pedestal at Station 657+75 NB LT. Discontinue existing fiber duct in location of proposed fiber.
- Station 640+20 NB to Station 639+60 NB LT: Relocate handhole 25 feet northwest. Relocate existing fiber to the west to tie into relocated handhole.
- Station 639+80 NB to Station 592+00 NB LT: Install fiber at an approximate depth of 5 feet south from relocated handhole along west right of way line to Station 636+25 NB LT. Trench fiber at an approximate depth of 4 feet from Station 636+25 NB LT to Station 635+50 NB LT and an approximate depth of 3 feet from Station 635+50 NB LT to Station 630+00 NB LT. Bore fiber at a typical approximate depth of 5 feet from Station 630+00 NB LT to 627+00 NB LT and at an approximate depth of 10 feet at Station 629+00 NB LT. Install fiber at an approximate depth of 4 feet from Station 627+00 NB LT to Station 622+50 NB LT. Install new handhole at Station 622+50 NB LT and bore fiber at an approximate depth of 6 feet to Station 619+00 NB LT. Trench fiber at an approximate depth of 3 feet from Station 619+00 NB LT to Station 594+00 NB LT. Bore fiber at an approximate depth of 6 feet from Station 594+00 NB LT to Station 592+00 NB LT. Install new handhole at Station 592+00 NB LT. Discontinue existing fiber duct in location of proposed fiber.
- Station 592+00 NB: Bore new fiber crossing at a typical approximate depth of 8 feet and at an approximate depth of 20 feet under proposed culvert to existing pole on Quam Drive. Remove existing handhole and discontinue existing fiber in area of proposed crossing.
- Station 592+00 NB to Station 562+75 NB LT: Install fiber at an approximate depth of 3 feet south from new handhole to Station 562+75 NB LT. Discontinue existing fiber duct in area of proposed fiber.
- Station 562+75 NB: Bore new fiber crossing at an approximate depth of 5 feet to existing handhole on east side of USH 51.
- Station 549+75 NB to 547+30 NB RT: Install new handhole. Bore fiber southeast at an approximate depth of 8 feet to existing handhole.
- Station 545+10 NB to Station 544+30 NB RT: Relocate existing fiber into new trench 5 feet from proposed right of way line at an approximate depth of 3 feet. Relocate existing pedestal at Station 544+30 NB RT to 5 feet from proposed right of way line.
- Station 544+30 NB to Station 533+60 NB RT: Discontinue existing fiber.
- Station 12+75 B RT to Station 529+30 NB RT: Install new fiber 2 feet from proposed right of way line at an approximate depth of 3 feet. Discontinue existing fiber in location of proposed fiber. Install new handholes at Station 12+75 B RT and Station 529+30 NB RT.
- Station 527+00 NB RT: Lower existing fiber to 4 feet below grade.
- Station 524+80 NB RT: Lower existing fiber to 4 feet below grade.
- Station 522+10 NB to Station 521+60 NB RT: Lower existing fiber to 6 feet below grade.
- Station 519+50 NB RT: Lower existing fiber to 4 feet below grade.
- Station 510+00 NB to Station 502+75 NB RT: Install new fiber 2 feet from proposed right of way line at an approximate depth of 4 feet to Station 502+75 NB RT. Install fiber at an approximate depth of 5 feet from Station 502+75 NB RT to Station 506+00 NB RT and cross Greenbrier Drive at an approximate depth of 9 feet to Station 503+75 NB RT. Install fiber at an approximate depth

of 5 feet from Station 503+75 NB RT to Station 502+75 NB RT. Discontinue existing fiber in location of proposed fiber. Install new handholes at Station 510+00 NB RT, Station 506+00 NB RT, and Station 502+75 NB RT.

- Station 493+75 NB to Station 488+50 LT: Install new fiber 1 foot from existing right of way line to Station 489+25 NB LT at an approximate depth of 3 feet, then tie into existing fiber at Station 488+50 NB LT. Discontinue existing fiber in duct in location of proposed fiber. Install new handhole at Station 493+75 NB LT.

TDS Metrocom LLC plans to begin this work in December 2025 and complete it within approximately 45 working days.

TDS Metrocom LLC will address conflicts at the following locations during construction:

- Station 675+50 NB: Existing fiber crossing is to remain. Contact TDS to allow a representative to be on site during excavation near facility.
- Station 675+00 NB LT: Adjust handhole to final grade. Contact TDS when work can be completed. This work is anticipated to take 1 working day to complete.
- Station 657+75 NB LT: Adjust pedestal to final grade. Contact TDS when work can be completed. This work is anticipated to take 1 working day to complete.
- Station 657+50 NB: Existing fiber crossing is to remain. Contact TDS to allow a representative to be on site during excavation near facility.
- Station 653+50 NB LT: Existing fiber in area of storm sewer is to remain. Contact TDS to allow a representative to be on site during excavation near facility.
- Station 643+50 NB to Station 640+00 NB LT: Existing fiber in area of guardrail to remain. Contact TDS to allow a representative to be on site during construction operations near facility.
- Station 556+10 NB RT: Existing fiber in area of storm sewer is to remain. Contact TDS to allow a representative to be on site during excavation near facility.
- Station 549+75 NB RT: Adjust handhole to final grade. Contact TDS when work can be completed. This work is anticipated to take 1 working day to complete.
- Station 510+00 NB RT: Adjust handhole to final grade. Contact TDS when work can be completed. This work is anticipated to take 1 working day to complete.
- Station 506+00 NB RT: Adjust handhole to final grade. Contact TDS when work can be completed. This work is anticipated to take 1 working day to complete.
- Station 493+75 NB LT: Adjust handhole to final grade. Contact TDS when work can be completed. This work is anticipated to take 1 working day to complete.

Project 5845-16-83

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

All utility coordination for Project ID 5845-16-83 was completed under Project ID 5845-16-73.

8. Municipality Acceptance of Sanitary Sewer and Water Main Construction.

Both the department and City of Stoughton personnel will inspect materials placement of of sanitary sewer and water main under this contract. However, construction staking, post-placement testing of the system, and final acceptance of the sanitary sewer and water main construction will be by the City of Stoughton Utilities.

stp-105-001 (20250701)

9. Referenced Construction Specifications.

Construct the work enumerated below conforming to the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, December 22, 2003, with Addendum No. 1, December 22, 2004.

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.

Conform to the referenced construction specifications for the following:

Sanitary Sewer items

Water Main items

stp-105-002 (20130615)

10. Prior Notice for Municipal Work.

Coordinate construction schedule and operations with the city, the engineer, emergency services, utility companies, and other contractors that may need to perform work within project area.

Coordinate all utility connections for water mains, opening and closing of water valves, and water service connections with the city Public Works Department. Coordinate all water service connections to the existing services with individual property owners.

Sanitary sewer and water service may not be interrupted for a period exceeding two hours unless prior approval is obtained from the property owner or the City of Stoughton Utilities. When requesting water valve operation, the contractor shall give 24-hour notice to the City of Stoughton Utilities.

11. Other Contracts.

Project 5845-16-76, the reconstruction of USH 51 between Exchange Street and Larson Beach Road, is anticipated to begin construction in the fall of 2026 and will require the installation of the USH 51 detour routing signing included in Project 5845-16-74 under this contract in early December 2026. Contact Cody Kammerzelt, WisDOT Construction Project Manager for Project 5845-16-76, by phone at (608) 243-5995, or by email at Cody.Kammerzelt@dot.wi.gov to coordinate the timing of the USH 51 detour signing installation needs.

Project 5845-16-75, the reconstruction of USH 51 between CTH B/AB (north side of the roundabout) and Tower Road, is anticipated to begin construction in the spring of 2027 under USH 51 detoured conditions. Based on the proximity of Project 5845-16-74 northern project limits (south side of the CTH B/AB roundabout) to Project 5845-16-75, and the inclusion of tree plantings adjacent to Barber Drive between approximate Station 650-00 NB to Station 662+00 NB within the Project 5845-16-74 project limits, contact Cody Kammerzelt, WisDOT Construction Project Manager for Project 5845-16-75, by phone at (608) 243-5995, or by email at Cody.Kammerzelt@dot.wi.gov to communicate planned work activities under Project 5845-16-74 near the northern project limits and at the tree planting locations adjacent to Barber Driave. The USH 51 and CTH B/AB roundabout will remain open during the 2027 construction season to allow east-west movements through the roundabout during USH 51 detoured conditions.

Project 5845-16-72, the reconstruction of USH 51 between Spring Road and Fifth Street, will have construction activities extending into spring 2026 that will require the installation of a USH 51 detour. This detour route is also anticipated to serve USH 51 traffic under 5845-16-73/5845-16-83 during the limited-duration mainline closures for water and sanitary lateral connections described in Stage 2 of the Traffic section in this document. Contact Cody Kammerzelt, WisDOT Construction Project Manager for Project 5854-16-72, by phone at (608) 243-5995 or by email at cody.kammerzelt@dot.wi.gov to coordinate the timing of the detour placement under that contract.

Project 5845-16-84, the reconstruction of USH 51 between Tower Road and Exchange Street, will be constructed under staged traffic conditions during the 2026 construction season. Contact Cody Kammerzelt, WisDOT Construction Project Manager for Project 5845-16-84, by phone at (608) 243-5995 or by email at cody.kammerzelt@dot.wi.gov for additional information.

12. Hauling Restrictions.

All haul routes within the city limits must be approved by the City of Stoughton prior to usage by the contractor. The preferred haul routes to be utilized throughout the city are on USH 51 and STH 138. The contractor shall not operate construction equipment on non-truck routes and residential City streets

beyond the construction limits. The contractor is responsible for locating all disposal sites and all necessary permitting required with regard to the disposal sites.

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

The department has obtained an individual Section 404 Permit (Permit No. MVP-2025-00521-MMP) for Project 5845-16-74 from the U.S. Army Corps of Engineers. Comply with the requirements of the permit in addition to requirements of the special provisions.

A copy of the permit is available from the regional office by contacting Kevin Drunasky, P.E., WisDOT Design Project Manager at (608) 609-5460.

If the contractor requires work outside the proposed slope intercepts, based on their method of operation to construct the project, it is the contractor's responsibility to determine whether a U.S. Army Corps of Engineers Section 404 permit modification is required. If a Section 404 permit modification is necessary, obtain the permit modification prior to beginning construction operations requiring the permit. No time extensions as discussed in standard spec 108.10 will be granted for the time required to apply for and obtain the permit modification. The contractor must be aware that the U.S. Army Corps of Engineers may not grant the permit modification request.

stp-107-054 (20230629)

14. Information to Bidders, WPDES Transportation Construction General Permit (TCGP) for Storm Water Discharges.

The calculated land disturbance for Projects 5845-16-73 and 5846-16-83 is 17.67 acres.

The calculated land disturbance for Project 5845-16-74 is 77.80 acres.

The department has obtained permit coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities under this contract. Conform to all permit requirements for the project.

This permit is the Wisconsin Pollutant Discharge Elimination System, Transportation Construction General Permit, (WPDES Permit No. WI-S066796-2). The permit can be found at:

https://widnr.widen.net/s/s5mwp2gd7s/finalsignedwisdotcsgp

A "Certificate of Permit Coverage" is available from the regional office by contacting Cody Kammerzelt at (608) 219-1331. Post the "Certificate of Permit Coverage" in a conspicuous place at the construction site.

Permit coverage for additional land disturbing construction activities related to contractor means and methods will be considered as part of the ECIP review and approval process. Coverage under the TCGP for additional land disturbance areas will be considered if the areas meet all of the following:

- Must meet the permit's applicability criteria.
- Must be for the exclusive use of a WisDOT project.
- Land disturbance first commences after the ECIP approval, and the areas are fully restored to meet the final stabilization criteria of the permit upon completion of the work.

The contractor is responsible for obtaining any permits for areas that are not approved by the department for coverage under the TCGP.

stp-107-056 (20250108)

15. Environmental Protection, Aquatic Exotic Species Control.

Exotic invasive organisms such as VHS, zebra mussels, purple loosestrife, and Eurasian water milfoil are becoming more prolific in Wisconsin and pose adverse effects to waters of the state. Wisconsin State Statutes 30.07, "Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters", details the state law that requires the removal of aquatic plants and zebra mussels each time equipment is put into state waters.

At construction sites that involve navigable water or wetlands, use the follow cleaning procedures to minimize the chance of exotic invasive species infestation. Use these procedures for all equipment that comes in contact with waters of the state and/or infested water or potentially infested water in other states.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels before being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Guidelines from the Wisconsin Department of Natural Resources for disinfection are available at:

http://dnr.wi.gov/topic/invasives/disinfection.html

Use the following inspection and removal procedures:

1. Before leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can before leaving the area or invested waters; and
4. Disinfect your boat, equipment and gear by either:
    4.1. Washing with ~212 F water (steam clean), or
    4.2. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
    4.3. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore, this disinfect should be used in conjunction with a hot water (>104º F) application.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site.

stp-107-055 (20130615)

16. Environmental Protection, Wild Hyacinth.

Suitable habitat for wild hyacinth is known to be present outside the 5845-16-74 project area. Do not stage equipment or materials along Lake Kegonsa Road south of USH 51, unless otherwise approved by the engineer.

17. Erosion Control Structures.

Within three calendar days after completing the excavation for a substructure unit, place riprap or other permanent erosion control items required by the contract or deemed necessary by the engineer around the unit at a minimum to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as the engineer directs.

In the event that construction activity does not disturb the existing ground below the Q2 elevation, the above timing requirements for permanent erosion control shall be waived.

stp-107-070 (20191121)

18. Environmental Protection - Dewatering.

Add the following to standard spec 107.18:

If dewatering is required, treat the water to remove suspended sediments by filtration, settlement or other appropriate best management practice prior to discharge. Submit the proposed means and methods of dewatering for each required location for approval as part of the Erosion Control Implementation Plan (ECIP). Include details of how the intake will be managed to not cause an increase in the background

level turbidity prior to treatment and any additional measures necessary to prevent sediments from reaching the project limits or wetlands and waterways.

Guidance on Dewatering can be found on the Wisconsin Department of Natural Resources website located in the Storm Water Construction Technical Standards, Dewatering Code #1061. This document can be found at the WisDNR website:

http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

The department will pay separately for known dewatering operations for Dewatering Pond 1 and Temporary Stream Diversion B-13-922, under their respective bid items. All other work includes furnishing all materials, excavation, maintenance, cleaning, disposal of surplus material and removal of the dewatering system and is incidental to contract work.

19. Notice to Contractor, Solar Flasher Assembly Unit Removal By Others.

Contact Timm Punzel, WisDOT Southwest Region-Madison Office Signing staff at (608) 259-6709 or by email at timm.punzel@dot.wi.gov two weeks prior to the removal of signs E5-01 (near Station 519+65 NB, RT) and E8-01 (near Station 541+65 NB, LT) to coordinate the removal of the existing solar flasher assembly units by WisDOT Southwest Region-Madison Office Signing and Marking staff.

20. Notice to Contractor, Electronic Load Tickets.

Replace standard spec 109.1.4.3 (1) with the following:

(1) Submit an electronic ticket for each load of material for the following bid items:

- Concrete Pavement 8-Inch
- Concrete Pavement HES 8-Inch

Include the information as specified in 109.1.4.2 on each electronic ticket. If there is a failure in the electronic ticket system, provide a printed ticket for each load of material as a substitute for electronic tickets.

stp-107-230 (20250108)

21. Notice to Contractor, Signal & Lighting Equipment Color

The traffic signals at the intersections of USH 51 & Van Buren St and at USH 51 & Kings Lynn Rd and lighting equipment throughout the project shall be colored black. All equipment visible to the public after construction shall be black as described elsewhere in the special provisions including but not limited to the cabinets, pedestal bases, transformer bases, monotubes, poles, and traffic signal standards, arms, and luminaires. Additionally, additional components not listed including traffic signal heads and mounting hardware shall be selected to match the black coloring.

At the USH 51 & Van Buren St and at USH 51 & Kings Lynn Way, the exception is the pedestrian button housings shall be yellow.

The intersection of USH 51 & Jackson St will not have black signal or lighting equipment. For any equipment installed as part of this traffic signal system, standard coloring shall be selected including brushed aluminum, yellow signal head housings, etc.

22. Archaeological Surveys for Non-Commercial Borrow Sites, Batch Plants, Waste Sites, and Staging Areas.

As a result of the United States (US) 51 corridor study and due to the number cultural resources throughout, stipulations within a Memorandum of Agreement (MOA) for the corridor requires archaeological surveys are to be conducted for **all** non-commercial borrow sites, batch plants, waste sites, and staging areas to be used for this Project. Desktop audit or literary research are non-compliant cultural resource clearances for this corridor.

Per federal requirements of the MOA, archaeological surveys will be conducted by WisDOT Cultural Resource Team (CRT) archaeologist only.

Due to seasonal field survey weather restrictions, field surveys cannot take place during frozen ground conditions. Therefore, determination of non-commercial site needs should be provided as soon as possible. Due to these restrictions, at least one commercial site will be selected and used until surveys can be conducted at selected non-commercial sites if field conditions delay surveys and therefore the approval of a non-commercial select site.

If significant discovery of archaeological properties are discovered, Section 106 procedures pursuant to Wis. Stat. 157.70 and/or 36 CFR 800 will be followed or another area will be obtained for borrow, batch plants, waste sites, and/or staging areas. If burials are discovered during survey, WisDOT CRT will immediately be notified and WisDOT CRT will immediately notify the WHS, FHWA, consulting tribes.

23. Archaeological Site.

The following archaeological sites are located within the project limits:

- Uncatalogued burial site 47DA0727 (BDA-0528) Ole Quam Mound is located approximately Station 587+44 NB to Station 589+26 NB, RT within the environmentally sensitive limits shown on the plans.
- Uncatalogued burial site 47DA0106 (BDA-0360) Thelma Barber is located approximately Station 641+79 NB to Station 647+34 NB, RT/LT within the environmentally sensitive limits shown on the plans.
- Uncatalogued burial site 47DA0107 Barber Campsite is located approximately Station 647+31 NB to Station 657+03 NB, LT within the environmentally sensitive limits shown on the plans.
- Uncatalogued burial site 47DA0105 (BDA-0359) C.M. Colladay I is located approximately Station 675+17 NB to Station 679+01 NB, LT within the environmentally sensitive limits shown on the plans.

Notify the Bureau of Technical Services – Environmental Process and Document Section (BTS-EPDS) at (608) 266-0099 at least two weeks before commencement of any ground disturbing activities. BTS-EPDS will determine if a qualified archaeologist will need to be on site during construction of these areas.

Do not use these sites for borrow or waste disposal. Do not use these site areas not currently capped by asphalt/concrete for the staging of personnel, equipment and/or supplies.

stp-107-220 (20180628)

24. Historical Site Protection.

The Northwest Side Historic District is present within the limits shown on the plans. Minimize impacts to adjacent properties within the historic districts to the greatest extent possible. Do not use sites located within a historic district for staging or storage of equipment, materials, or personnel, and do not use properties within a historic district as a source of borrow, or as a location for the placement of waste materials.

25. Coordination with City of Stoughton.

Unless otherwise indicated in the plans, city-owned streetscape features such as signs, benches, trash cans, and mailboxes will be removed by the city prior to construction. Verify with the engineer and city representative before removing any city-owned devices. The contractor will be responsible for any damage caused to city-owned devices removed without approval of the engineer and the city.

The city's representative will be:

City of Stoughton Public Works Director
Brett Hebert
608-877-8684 (main)
608-346-1240 (cell)
bhebert@ci.stoughton.wi.us

26. Coordination with Businesses and Residents.

The department will 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 a meeting one week prior to the Stage 2 traffic switch (2026), Stage 3 traffic switch (2026), Stage 4 traffic switch (2026), and prior to restarting work after the 2026/2027 winter suspension. The department will 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 2 weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

27. Coordination with Bayview Heights.

The contractor shall arrange and conduct a meeting between the contractor, the department, the engineer, and Bayview Heights residents to discuss the project schedule of operations including vehicular and pedestrian access during the 2027 construction operations. Hold the meeting in the fall of 2026 ahead of installing the USH 51 detour. The contractor shall coordinate with Casy Petterson, Bayview Heights Property Manager, by phone at (608) 520-9665, or by email at cpetterson@havenparkmgmt.com at least two months prior to scheduling the meeting with Bayview Heights residents to coordinate the meeting location, date, and time. The contractor will prepare and coordinate the meeting notices and mailings for the meeting with the department.

28. Abatement of Asbestos Containing Material 5845-16-74, Item 203.0216.S.

A Description

This special provision describes abating asbestos containing material in buildings or utility conduit.

B (Vacant)

C Construction

For Buildings:

John Roelke, License Number: All-119523, inspected Structure: Parcel 1 (Plat ID 5845-16-29), 3176 Rutland-Dunn Townline Road, Stoughton, WI, for asbestos on July 30, 2025. Regulated Asbestos Containing Material (RACM) was found on this structure in the following locations and quantities:

- Approximately 20 square feet of white/gray painted sealant along the porch ceiling to wall transition.
- Approximately 4 square feet of white window glaze around the bath/laundry room and 2nd floor windows.
- Approximately 2,800 square feet of gray fiber cement board siding on the exterior of the house.

A copy of the inspection report is available from Kevin Drunasky, (608) 246-3811, kevin.drunasky@dot.wi.gov.

D Measurement

The department will measure Abatement of Asbestos Containing Material 5845-16-74 by each project, 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
203.0216.S	Abatement of Asbestos Containing Material 5845-16-74	EACH

Payment is full compensation for submitting necessary forms; removing all asbestos; and for properly disposing of all waste materials.

stp-203-006 (20220628)

29. Abandoning Sewer, Item 204.0291.S.

A Description

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

B Materials

B.1 Cement

Furnish cement meeting the requirements of standard spec 501.2.4.1 for Type I or II Portland Cement or Type IL Portland-Limestone Cement.

B.2 Fly Ash

Furnish Class C or F Fly Ash meeting the requirements of standard spec 501.2.4.2.2.

B.3 Sand

Furnish natural sand meeting the fine aggregate requirements of standard spec 501.2.7.2 and the size requirements of standard spec 501.2.7 except the percent passing the number 200 sieve shall be 0-5 percent by weight.

B.4 Water

Furnish water meeting the requirements of standard spec 501.2.6.

B.5 Mix Design

Use the basic proportions of dry materials per cubic yard of grout as follows:

- Cement 100 pounds
- Fly Ash 400 pounds
- Fine Aggregate 2600 pounds

or an engineer approved equal.

In addition the grout shall conform to the following:

Compressive Strength	ASTM C495	300 psi @ 28 day min
Density	ASTM C495 (no oven drying)	50 pcf min
Shrinkage	ASTM C157	1% by volume
Flow	ASTM C939	35 sec max

Air entraining and chemical admixtures to control fluidity of the grout are allowable. Ten days before placement, furnish to the engineer a design mix detailing all components and their proportions in the mix.

B.6 Cellular Grout

Alternatively, the contractor may use, or if the manufacturer recommends, an engineer-approved commercial cellular concrete grout conforming to the following:

Cement	ASTM C150/ ASTM C595	Type I or II/Type IL
Density	ASTM C495 (no oven drying)	50 pcf min
Compressive Strength	ASTM C495	300 psi @ 28 day min 100 psi in 24 hours
Shrinkage	ASTM C157	1% by volume
Flow	ASTM C939	35 sec max

C Construction

Fill the abandoned sewer pipe with flowable grout 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 (20250701)

30. Removing Traffic Signal – USH 51 and Van Buren St, Item 204.9060.S.01; Removing Traffic Signal – USH 51 and Kings Lynn Rd, Item 204.9060.S.02; Removing Traffic Signal – USH 51 and Jackson St, Item 204.9060.S.03.

A Description

This special provision describes removing the existing traffic signals at the intersection along USH 51 at Van Buren St, Kings Lynn Rd, and Jackson St in accordance with the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

B (Vacant)

C Construction

Arrange for the de-energizing of the traffic signals with the local electrical utility after receiving approval from the engineer that the existing street lighting items can be removed. Temporary signals must be operational before removals may begin.

Notify Graham Heitz at (608) 246-5362 at least 3 working days before the removal of the traffic signals at USH 51 & Jackson Street. Notify Brett Hebert at (608) 877-8684 at least 3 working days before the removal of the traffic signals at USH 51 & Van Buren St and at USH 51 & Kings Lynn Rd. Complete the removal work as soon as possible following shut down of this equipment.

The department assumes that all equipment is in good condition and in working order before the contractor's removal operation. Before removal, inspect and provide a list of any damaged or non-working traffic signal equipment to the engineer. Any equipment not identified as damaged or not working, before removal, will be replaced by the contractor at no cost to the department.

Remove identified standards and poles per plan from their concrete footings and prepare them for reinstallation. Remove the identified signal heads, mast arms, luminaires, wiring/cabling, and traffic signal mounting devices from each signal standard, arm, or pole and prepare for reinstallation. Ensure that all access hand hole doors and all associated hardware remain intact. Dispose of the underground signal cable, internal wires and street lighting cable off the state right-of-way.

Deliver the remaining materials not being reinstalled or discarded to the SW Region Electrical Service Facility. Contact the department's Electrical Field Unit at least 3 working days before delivery to schedule delivery.

D Measurement

The department will measure Removing Traffic Signal (location) as each intersection, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Traffic Signal – USH 51 and Van Buren St	EACH
204.9060.S.02	Removing Traffic Signal – USH 51 and Kings Lynn Rd	EACH
204.9060.S.03	Removing Traffic Signal – USH 51 and Jackson St	EACH

Payment is full compensation for removing, disassembling traffic signals, preparing some materials for reinstallation, scrapping of some materials, disposing of scrap material, and for delivering the requested materials to the department.

stp-204-025 (20230113)

31. Removing Inlet Covers, Item 204.9060.S.04.

A Description

This special provision describes removing Inlet Covers conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Inlet Covers as each individual cover, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.04	Removing Inlet Covers	EACH

stp-204-025 (20230113)

32. Removing Private Light Pole, Item 204.9060.S.05.

A Description

This special provision describes removing light poles conforming to standard spec 204.

B (Vacant)

C Construction

Deenergize and remove wiring necessary to remove the private light pole. Remove wiring down to existing grade and abandon the remaining portion in compliance with the State Electric Code.

D Measurement

The department will measure Removing Private Light Pole as each individual private light pole, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.05	Removing Private Light Pole	EACH

stp-204-025 (20230113)

33. Removing Stone Block Retaining Wall, Item 204.9060.S.06.

A Description

This special provision describes removing stone block retaining wall conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Stone Block Retaining Wall as each individual removing stone block retaining wall, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.06	Removing Stone Block Retaining Wall	EACH

stp-204-025 (20230113)

34. Removing Business Advertisement Sign (Parcel 38), Item 204.9060.S.07.

A Description

This special provision describes removing business advertisement sign conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Business Advertisement Sign as each advertisement sign, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.07	Removing Business Advertisement Sign	EACH

stp-204-025 (20230113)

35. General Requirements for Blasting Rock.

Add the following to standard spec 205.3.7:

Perform all blasting in compliance with the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43.

Blasting Plan Submittal

Not less than two weeks before commencing blasting operations, or at any time when changes to the drilling and blasting methods are proposed, submit a Blasting Plan to the engineer for review. The blasting plan shall contain full details of the drilling and blasting patterns and controls proposed for both the controlled and production blasting. Include the following minimum information in the blasting plan:

1. Station limits of proposed shot.
2. Plan and section views of proposed drill pattern including free face, burden, blasthole spacing, blasthole diameters, blasthole angles, lift height, and subdrill depth.
3. Loading diagram showing type and amount of explosives, primers, initiators, and location and depth of stemming.
4. Initiation sequence of blastholes including delay times and delay system.
5. Manufacturer’s data sheets for all explosives, primers, and initiators to be employed.

The blasting plan submittal is for quality control and record keeping purposes. Review of the blasting plan by the engineer does not relieve the contractor of responsibility for the accuracy and adequacy of the plan when implemented in the field.

Safety

Immediately notify the engineer of any incidents of fly rock, damage to any personal property, or existing roadway that is open to traffic, and any violations of the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43. Failure to do so shall be considered a safety violation under standard spec 107 and all work on the project may be stopped under standard spec 105.1(1).

Notify the engineer of the station, location, and ‘size’ of all blasts at least one hour before the blast.

Observe the entire blast area for a minimum of five minutes following a blast to guard against rock or debris fall before commencing work in the area.

The engineer has the authority to prohibit or halt the contractor’s blasting operations if it is apparent that through the methods being employed, the required slopes are not being obtained in a stable condition, the safety and convenience of the traveling public is being jeopardized, or vibration levels above the allowable levels occur.

Condition Surveys

Conduct and document pre-blast and post-blast surveys of any nearby buildings or structures as required by the scaled-distance equation specified in the Wisconsin Administrative Code Department of Safety and

Professional Services SPS 307.43. Make right of entry arrangements with the property owners for these condition surveys. Before any blasting, make the pre-blast survey records available to the engineer for review. After completion of blasting operations, perform a post-blast survey and make these records available to the engineer for review. The contractor shall be responsible for any damage resulting from blasting.

These condition surveys shall consist of visually inspecting and recording all existing defects in the structures before and after blasting operations. Photographs and/or videotape may be used to assist in documentation. Submit a written report to the department detailing the visual and photographic investigation of potentially affected structures. This report will include copies of the pre-blast and post-blast surveys and discuss any discrepancies and findings of these surveys.

If at any time during the progress of the work, the methods of drilling and blasting do not produce the desired result of a uniform slope and shear face, within the tolerances specified, drill, blast, and excavate in short sections, not exceeding 100 feet in length, until a technique is arrived at that will produce the desired results. Extra cost resulting from this requirement shall be borne by the contractor.

Vibration Control and Monitoring

All vibration control and monitoring shall comply with Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43, Instrumentation and SPS 307.44, Control of Adverse Effects.

Whenever there is a potential for vibration damage to adjacent buildings, structures, or utilities, monitor each blast with an approved seismograph located, as approved, between the blast area and the closest structure subject to blast damage, and as close as practical to the subject structure. Peak particle velocity shall not be allowed to exceed the safe limits of the nearest structure subject to vibration damage.

A vibration specialist, approved by the engineer, shall perform vibration monitoring. The vibration specialist shall monitor vibration levels according to the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 and interpret the seismograph records to ensure that the seismograph data shall be effectively utilized in the control of the blasting operations with respect to the existing structures and utilities.

According to the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 consult with the owner of any structure or utility not listed in SPS 307.43 to establish maximum allowable limits on ground vibrations. In no case shall these vibration limits exceed the following criteria:

Structure Type	Maximum Peak Particle Velocity (inches/second)
Reinforced Concrete, Structures, Unoccupied	4.0
Steel Structures, Unoccupied	4.0
Buried Utilities	2.0
Wells and Aquifers	2.0
Green Concrete (Less than 7 days)	1.0

Furnish data recorded for each shot to the engineer before the next blast; the data shall include the following:

1. Identification of vibration monitoring instrument used.
2. Name of qualified observer and interpreter.
3. Distance and direction of recording station from blast area.
4. Type of ground at recording station and material on which the instrument is sitting.
5. Peak particle velocity and principal frequency in each component.
6. A dated and signed copy of records of seismograph readings.
7. A comparison of measured seismograph readings to maximum allowable readings identified in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 or as specified in this special provision.

If the recorded vibration data exceeds the allowable levels established in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.43 or as specified in this special provision, immediately halt blasting operations. Submit a revised blasting plan to the engineer and do not resume blasting operations until the engineer approves the revised plan.

All costs associated with the work described herein shall be considered included in the bid item Excavation Rock.

stp-205-050 (20141107)

36. Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.

A Description

A.1 General

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a DNR approved bioremediation facility or landfill. The closest DNR approved bioremediation facility or landfill is:

Waste Management Madison Prairie Landfill
6002 Nelson Road
Sun Prairie, WI 53590
(866) 909-4458

Perform this work conforming to standard spec 205 and Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil Locations

The department completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following locations the plans show:

1. Station 397+00 to 397+90 from centerline to edge of right of way on the south side of USH 51 between a depth of 7’ to 15’ below ground surface
2. Station 405+75 to 407+25 from centerline to edge of right of way on the south side of USH 51 between the ground surface and 10’ below ground surface

A.3 Notice to the Contractor – Potentially Contaminated Soil Locations

Previous investigations indicate that contamination is present at the following location, and field screening is required:

1. Station 424+00 to 425+75 and 432+00 to 438+00 from centerline to edge of right of way on the south side of USH 51.

Contaminated soil and/or underground storage tanks (USTs) may be encountered at other locations within the construction limits. If contaminated soil and/or USTs are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Contaminated soil at other locations shall be managed by the contractor under this contract. USTs will be removed by others.

For further information regarding previous investigation and remediation activities at these sites contact:

Name:	Brian Taylor, WisDOT SW Region
Address:	2101 Wright Street
	Madison, WI 53704
Phone:	608-516-3452
E-mail:	brianf.taylor@dot.wi.gov

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant:	TRC Environmental Corporation
Address:	999 Fourier Drive, Suite 101
	Madison, WI 53717
Contact:	Dan Haak
Phone:	608-826-3628
Fax:	608-826-3941
E-mail:	dhaak@trccompanies.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the bioremediation facility or landfill;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation facility or landfill.

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 areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days before beginning excavation activities in each of the contaminated areas.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated areas. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed.

Identify the DNR approved bioremediation facility or landfill that will be used for disposal of contaminated soils and provide this information to the environmental consultant no later than 30 calendar days before beginning excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the bioremediation facility or landfill. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements

Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products. 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 contaminated site location 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 before the start of work.

B (Vacant)

C Construction

Add the following to standard spec 205.3:

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. 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 soils designated by the environmental consultant for offsite bioremediation or landfilling to the DNR approved bioremediation facility or landfill. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Before transport, sufficiently dewater soils designated for off-site bioremediation or landfilling so as not to contain free liquids.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil, accepted by the bioremediation facility or landfill as documented by weight tickets generated by the bioremediation facility or landfill.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation, or landfilling of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; and dewatering of soils before transport, if necessary.

stp-205-003 (20230113)

37. Base Aggregate Dense 3/4-Inch, Item 305.0110.

Add the following to standard spec 301.2.4.3:

Furnish only aggregate classified as crushed stone for Dense 3/4-Inch when used in the top 3 inches of the unpaved portion of the shoulder or for unpaved driveways and field entrances.

swr-305-001 (20170711)

38. Base Aggregate Dense 1 1/4-Inch, Item 305.0120.

Add the following to standard spec 305.2.2.1:

When 1 1/4-Inch base aggregate is >/= 50 percent crushed gravel, conform to the following gradation requirements:

SIEVE	PERCENT PASSING BY WEIGHT
1 1/4 inch	95 - 100
1 inch	---
3/4 inch	70 - 90
3/8 inch	45 - 75
No. 4	30 - 60
No. 10	20 - 40
No. 40	7 - 25
No. 200	3 - 10[1]

[1] Limited to a maximum of 8.0 percent for base placed between old and new pavement.

swr-305-002 (20170711)

39. Rout and Seal, Item 415.6000.S.

A Description

This special provision describes routing, cleaning, drying, and sealing the longitudinal edge of pavement joints in new asphaltic pavement shoulders immediately adjacent to the edge of the concrete mainline pavement.

B Materials

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

Deliver each lot or batch of sealing compound to the jobsite in the manufacturer's original sealed container. Mark each container with the manufacturer's name, batch or lot number, and the safe heating

temperature. Present the manufacturer's certification stating that the compound meets the requirements of this specification. Before applying the sealant, furnish to the engineer a certificate of compliance and a copy of the manufacturer's recommendations on heating and applying the sealant.

C Construction

C.1 Equipment

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

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

C.2 Methods

Conduct the operation so that the routing, cleaning, and sealing are continuous operations. Traffic shall not be allowed to knead together or damage the routed joints. Rerout, if necessary, routed joints not sealed before traffic is allowed on the pavement when routing and sealing operations resume. Do not perform rout cutting, cleaning, and sealing, within 48 hours of the placement of the shoulder's surface course.

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

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

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

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

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

D Measurement

The department will measure Rout and Seal in length by the linear foot, completed according to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
415.6000.S	Rout and Seal	LF

Payment is full compensation for rout cutting; cleaning the joint; sealing the joint; and cleanup.

40. QMP HMA Pavement Nuclear Density.

A Description

Replace standard spec 460.3.3.2 (1) and standard spec 460.3.3.2 (4) with the following:

(1) This special provision describes density testing of in-place HMA pavement with the use of nuclear density gauges. Conform to standard spec 460 except as modified in this special provision.

(2) Provide and maintain a quality control program defined as all activities and documentation of the following:

1. Selection of test sites.
2. Testing.
3. Necessary adjustments in the process.
4. Process control inspection.

(3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required procedures.

https://wisconsindot.gov/rdwy/cmm/cm-08-00.pdf

(4) The department's Materials Reporting System (MRS) software allows contractors to submit data to the department electronically, estimate pay adjustments, and print selected reports. Qualified personnel may obtain MRS software from the department's web site at:

http://www.atwoodsystems.com/

B Materials

B.1 Personnel

(1) Nuclear gauge owners and personnel using nuclear gauges shall comply with WisDOT requirements according to 460.3.3 and CMM 815.

B.2 Testing

(1) Conform to WTM T355 and CMM 815 for density testing and gauge monitoring methods. Conform to CMM 815.10.4 for test duration and gauge placement.

B.3 Equipment

B.3.1 General

(1) Furnish nuclear gauges according to CMM 815.2.

(2) Furnish nuclear gauges from the department's approved product list at

https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx

B.3.2 Comparison of Nuclear Gauges

B.3.2.1 Comparison of QC and QV Nuclear Gauges

(1) Compare QC and QV nuclear gauges according to WTM T355.

B.3.2.2 Reference Site Monitoring

(1) Conduct reference site monitoring for both QC and QV gauges according to WTM T355.

B.4 Quality Control Testing and Documentation

B.4.1 Lot and Sublot Requirements

B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 815.10.2.

(2) Determine required number of tests according to CMM 815.10.2.1.

(3) Determine random testing locations according to CMM 815.10.3.

B.4.1.2 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

(1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 815.10.2.

(2) Determine required number of tests according to CMM 815.10.2.2.

(3) Determine random testing locations according to CMM 815.10.3.

B.4.2 Pavement Density Determination

B.4.2.1 Mainline Traffic Lanes and Appurtenances

(1) Calculate the average sublot densities using the individual test results in each sublot.

(2) If all sublot averages are no more than one percent below the target density, calculate the daily lot density by averaging the results of each random QC test taken on that day's material.

(3) If any sublot average is more than one percent below the target density, do not include the individual test results from that sublot when computing the lot average density and remove that sublot's tonnage from the daily quantity for incentive. The tonnage from any such sublot is subject to disincentive pay as specified in standard spec 460.5.2.2.

B.4.2.2 Mainline Shoulders

B.4.2.2.1 Width Greater Than 5 Feet

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.2.2 Width of 5 Feet or Less

(1) If all sublot test results are no more than 3.0 percent below the minimum target density, calculate the daily lot density by averaging all individual test results for the day.

(2) If a sublot test result is more than 3.0 percent below the target density, the engineer may require the unacceptable material to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine the limits of the unacceptable material according to B.4.3.

B.4.2.3 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.4 Documentation

(1) Document QC density test data as specified in CMM 815. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

B.4.3 Corrective Action

(1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.

(2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted sublot. Testing in a previously accepted sublot will not be used to recalculate a new lot density.

(3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full sublot width within the traffic lanes or shoulders.

(4) Retesting and acceptance of replaced pavement will be as specified in standard spec 105.3.

(5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the sublot and lot densities.

(6) If two consecutive sublot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

B.5 Department Testing

B.5.1 Verification Testing

(1) The department will have a HTCP certified technician, or ACT working under a certified technician, perform verification testing. The department will test randomly at locations independent of the contractor's

QC work. The department will perform verification testing at a minimum frequency of 10 percent of the sublots and a minimum of one sublot per mix design. The sublots selected will be within the active work zone. The contractor will supply the necessary traffic control for the department's testing activities.

(2) The QV tester will test each selected sublot using the same testing requirements and frequencies as the QC tester.

(3) If the verification sublot average is not more than one percent below the specified minimum target density, use the QC tests for acceptance.

(4) If the verification sublot average is more than one percent below the specified target density, compare the QC and QV sublot averages. If the QV sublot average is within 1.0 lb/ft^3 of the QC sublot average, use the QC tests for acceptance.

(5) If the first QV/QC sublot average comparison shows a difference of more than 1.0 lb/ft^3 each tester will perform an additional set of tests within that sublot. Combine the additional tests with the original set of tests to compute a new sublot average for each tester. If the new QV and QC sublot averages compare to within 1.0 lb/ft^3, use the original QC tests for acceptance.

(6) If the QV and QC sublot averages differ by more than 1.0 lb/ft^3 after a second set of tests, resolve the difference with dispute resolution specified in B.6. The engineer will notify the contractor immediately when density deficiencies or testing precision exceeding the allowable differences are observed.

B.5.2 Independent Assurance Testing

(1) Independent assurance is unbiased testing the department performs to evaluate the department's verification and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform the independent assurance review according to the department's independent assurance program.

B.6 Dispute Resolution

(1) The testers may perform investigation in the work zone by analyzing the testing, calculation, and documentation procedures. The testers may perform gauge comparison according to B.3.2.1.

(2) The testers may use comparison monitoring according to B.3.2.2 to determine if one of the gauges is out of tolerance. If a gauge is found to be out of tolerance with its reference value, remove the gauge from the project and use the other gauge's test results for acceptance.

(3) If the testing discrepancy cannot be identified, the contractor may elect to accept the QV sublot density test results or retesting of the sublot in dispute within 48 hours of paving. Traffic control costs will be split between the department and the contractor.

(4) If investigation finds that both gauges are in error, the contractor and engineer will reach a decision on resolution through mutual agreement.

B.7 Acceptance

(1) The department will not accept QMP HMA Pavement Nuclear Density if a non-compared gauge is used for contractor QC tests.

C (Vacant)

D (Vacant)

E Payment

E.1 QMP Testing

(1) Costs for all sampling, testing, and documentation required under this special provision are incidental to the work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the Non-performance of QMP administrative item.

E.2 Disincentive for HMA Pavement Density

(1) The department will administer density disincentives as specified in standard spec 460.5.2.2.

E.3 Incentive for HMA Pavement Density

(1) The department will administer density incentives as specified in standard spec 460.5.2.3.

stp-460-020 (20230629)

41. Cold Patch, Item 495.1000.S.

A Description

This special provision describes furnishing cold patch and filling potholes and other voids in existing pavement surfaces as the engineer directs.

B Materials

Furnish a mixture of course aggregate, natural sand, and MC-250 bituminous material designed to have a workability range of 15-100º F without heating. Ensure that the mixture:

- Adheres to wet surfaces.
- Resists damage from water, salt, and deicing products.
- Requires no mixing or special handling before use.
- Supports traffic immediately after placement and compaction.

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1/2-inch (12.5 mm)	100
3/8-inch (9.5 mm)	90 - 100
No. 4 (4.75 mm)	90 max
No. 8 (2.38 mm)	20 - 65
No. 200 (0.074 mm)	2 - 10
Bitumen	4.8 - 5.4

The department will accept cold patch based primarily on the engineer's visual inspection. The department may also test for gradation.

C Construction

Stockpile cold patch on site on a smooth, firm, well-drained area cleared of vegetation and foreign material. Cover the stockpile and ensure that it is easily accessible. Replenish the stockpile throughout the project duration but limit the size at any given time to 10 tons on site unless the engineer approves otherwise. Dispose of unused material at project completion unless the engineer directs otherwise.

Place cold patch by hand. Remove ponded water and loose debris before placement. Compact flush with a tamper, roller, or vehicle tire after placement.

Refill patched areas as necessary to maintain a flush pavement surface until project completion.

D Measurement

The department will measure Cold Patch by the ton, acceptably stockpiled on site.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
495.1000.S	Cold Patch	TON

Payment for Cold Patch is full compensation for providing and maintaining patches; for furnishing and replenishing stockpiled material on-site; and for disposing of excess material at project completion.

stp-495-010 (20160607)

42. Sheet Membrane Waterproofing for Buried Structures, Item 516.0610.S.

A Description

This special provision describes providing a primer, waterproofing membrane, hot rubberized sealer or mastic, or both, on the concrete faces of buried structures as the plans show.

B Materials

B.1 Waterproofing System

For pedestrian underpasses and buried structures other than box culverts with no asphaltic overlay or with a minimum earth cover of 6” or more between the waterproofing membrane and the asphaltic pavement, select a membrane from the Sheet Membrane Waterproofing for Buried Structures Approved Products List (APL), or furnish a waterproofing system meeting the requirements as specified herein.

Provide a material in the waterproofing system that is specifically designed for use on buried structures. The membrane shall consist of a cold-applied, self-adhering membrane with a layer of polymer modified bitumen or SBS modified rubberized asphalt. The membrane shall have a release film, polyester or polyethylene on the downside.

Provide a composite sheet membrane with the following properties:

Property	Test Method	Specific Value
Width		36 inch min.
Tensile Strength	ASTM D412 or ASTM D882	325 psi min. (Membrane), 5,000 psi min. (Film)
Thickness		60 mils to 80 mils
Puncture Resistance	ASTM E154	40 lb min.
Permeance	ASTM E96, Method B	0.05 US Perms max.
Low Temperature Pliability	ASTM D146, 1-inch Mandrel @ -25º F Or ASTM D1970	Unaffected
Water Absorption	ASTM D570, 72 hours	0.25% max.
Peel Adhesion	ASTM D903	5 lb/in width min.

Provide rubberized asphalt compound containing not more than 15% inorganic residue or filler material.

Provide primer, mastic and/or hot rubberized asphalt sealer conforming to the specified properties required by the manufacturer of the waterproofing membrane.

B.2 Materials Certification for Products Not on APL

Waterproofing products not on the APL are required to provide material certification.

Before membrane approval for initial submittals and/or upon reformulation of membrane material compounds, submit to the engineer a notarized certification by an independent test laboratory stating that the materials conform to the requirements of these specifications.

The certification shall include or have attached specific results of tests performed on the material supplied. Samples of any material for testing may be required by the engineer.

C Construction

C.1 Application Methods Apply materials in strict accordance with the manufacturer’s instructions. In order to install the waterproofing membrane, the slab temperature shall be a minimum of 45º F and rising. Before applying the system, become acquainted with the materials specified and their handling characteristics and become thoroughly familiar with the construction procedures recommended by the manufacturer. Furnish a copy of the recommended procedures to the engineer. To establish procedures for maintaining optimum working conditions and to coordinate work related to adjacent construction, hold a pre-installation conference with a manufacturer’s representative, the engineer, and other affected contractors before starting construction. To provide quality assurance that the membrane has been properly installed, a manufacturer’s representative familiar with membrane installation procedures shall be present during placement of the membrane.

Finish all concrete surfaces that will be in contact with the membrane with a magnesium float finish. Provide a minimum concrete cure time of seven days before placing the primer.

The slab shall be clean, dry, and free from mud, dirt, sand, oil, or grease, and any other contaminants before application of the primer. No vehicles or equipment will be permitted on the concrete slab after surface preparation except those necessary for the installation of the waterproofing membrane. The engineer will inspect the concrete slab before the application of the primer. Do not begin application of either the primer or membrane until after the engineer grants approval.

To coat all surfaces that will be covered with the membrane, apply primer uniformly as recommended by the manufacturer. Use roller, brush, or spray to apply primer to the surfaces. If spraying is used, an approved method of protecting the environment is required.

Allow the primer to dry until tack free, approximately 45 minutes, before applying the membrane. Apply primer only to an area that will be covered with the membrane within the same calendar day. If the surface of the concrete slab becomes contaminated, clean and re-prime the area.

Apply primer to the inside face of any header to the top of the header. Take care to ensure that all inside corners are coated with primer.

After the primer has dried to a tack free condition, apply one layer of membrane to the slab starting on the low side edge.

To form a bond with the primed slab, remove the release film from the membrane on the tacky side while the membrane is rolled face down. Apply the membrane using hand methods or by using mechanical applicators. Overlap a minimum of 2.5 inches at the edges of each strip and overlap the membrane in such a manner to provide a shingling effect toward the low side of the slab cross section. Overlap a minimum of 5 inches at the ends of each strip of membrane and overlap the membrane in such a manner to provide a shingling effect toward the lower side of the slab profile. Roll the entire membrane surface with a rubber tire roller to ensure firm and uniform contact with the primed surface. Use special care to ensure that the membrane is uniformly adhered to the concrete and that the entire membrane is free of wrinkles, air bubbles, and other placement defects. In the event bubbles or blisters do form under the membrane, puncture the bubbles or blisters with a sharp pointed instrument such as an awl and press the membrane firmly into contact with the slab. Repair any membrane punctures, tears, holes, and misaligned or inadequate seams with a patch of waterproofing membrane sized as required to ensure that the membrane is watertight.

Cover the inside corners of any concrete header and all other perimeter edges with narrow strips (flashing strips of approximately 12 inches), hot rubberized sealer, or mastic according to the manufacturer's guidelines. As an additional method of ensuring a watertight bond, all terminating edges, transverse overlaps and longitudinal overlaps may be heated with a propane torch to soften the top mat and fuse the surfaces together.

Place a 6-inch-thick layer of clean granular fill material (sand), free of any aggregate, stones or other angular materials that may puncture the membrane, over the membrane covered slab. Cover all exposed membrane with the clean granular fill within five days after installation. Only rubber-tired construction vehicles shall be permitted on the membrane. Use caution not to turn the tires when a vehicle is stationary. To prevent tearing the membrane, avoid sudden starts, stops, accelerations, or decelerations. Chemical solvents, gasoline, diesel fuel, mineral spirits, or other deleterious substances shall not be spilled or leaked onto the membrane. When required to accommodate traffic control staging, the placement of fill material shall stay at least 12 inches away from the terminating edge of the membrane to provide for overlap. The membrane applicator contractor shall have a minimum of one employee present during the placement of the clean granular fill material to ensure that all necessary membrane repairs are accomplished.

D Measurement

The department will measure Sheet Membrane Waterproofing for Buried Structures, installed according to the contract and accepted, in area by the square yard. Measurement shall be based on the horizontal distance between the faces of any concrete headers and the horizontal length of membrane installed. Any material specified to be applied up vertical faces of any header or vertically down at the ends of the buried structure shall be included in the measured quantity.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
516.0610.S	Sheet Membrane Waterproofing for Buried Structures	SY

Payment is full compensation for furnishing and placing the primer, membrane, mastic, and hot rubberized asphalt sealer, preparing the surface, and placing all strips of membranes. The department will pay separately for providing fill material over the sheet membrane waterproofing under the Backfill Structure Type B bid item.

stp-516-061 (20230113)

43. Concrete Staining Multi-Color R-13-387, Item 517.1015.S.01; Concrete Staining Multi-Color R-13-388, Item 517.1015.S.02; Concrete Staining Multi-Color R-13-389, Item 517.1015.S.03; Concrete Staining Multi-Color R-13-390, Item 517.1015.S.04.

A Description

This special provision describes providing a multi-color concrete stain on the exposed concrete surfaces of the structure as the plan details show.

B Materials

B.1 Mortar

Use mortar for sack rubbing the concrete surfaces as given in standard spec 502.3.7.5 or use one of the following products:

Preblended, Packaged Type II Cement:	Tri-Mix by TK Products
	Thoroseal Pearl Gray by Thoro Products

The mortar shall contain one of the following acrylic bonding admixtures mixed and applied according to manufacturer's recommendations:

Acrylic Bonding Admixture:	TK-225 by TK Products
	Achro 60 by Thoro Products
	Achro Set by Master Builders

B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces. Use the following products, or equal as approved by the department:

Tri-Sheen Concrete Surfacer, Smooth by TK Products

Tri-Sheen Acrylic by TK Products

TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products

Safe-Cure & Seal EPX by Chem Masters

H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

C Construction

C.1 General

Furnish, prepare, apply, cure, and store all materials according to the product manufacturer's specifications for the type and condition of application required.

Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, before staining.

C.2 Preparation of Concrete Surfaces

Provide a sack rubbed finish as specified in standard spec 502.3.7.5, using mortar as indicated above on concrete surfaces with open voids or honeycombing.

Following the sack rubbing, clean all concrete surfaces that are to be coated to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, and any foreign material and that the surface will accept the coating material according to product requirements. As a minimum, clean the surface using a 3000-psi water blast. Hold the nozzle of the water blaster approximately 6 inches from the concrete surface and move it continuously in a sweeping motion. Give special attention to smooth concrete surfaces to produce an acceptable surface texture. Correct any surface problems resulting from the surface preparation methods. Grit blasting of the concrete surface is not allowed.

C.3 Staining Concrete Surfaces

Apply the concrete stain according to the manufacturer's recommendations.

Apply the concrete stain when the temperature of the concrete surface is 45º F or higher, or as given by the manufacturer.

The color of the staining shall produce a multi-color effect that consists of multiple colors replicating varying natural stone coloration. Stain the joints between stones produced by the form liner to create the appearance of grouted joints.

Do not begin staining the structure until earthwork operations are completed to a point where this work can begin without receiving damage. Where this work is adjacent to exposed soil or pavement areas, provide temporary covering protection from overspray or splatter.

C.4 Test Areas

Before applying stain to the structure, apply the stain to sample panels measuring a minimum of 48 inches x 48 inches and constructed to demonstrate workmanship in the use of the form liner specified on the structure if applicable. Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, before staining. Submit color samples to the department before staining the sample panels. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between stones produced by the form liner. Do not apply stain to the structure until the department approves the test panels.

C.5 Surfaces to be Coated.

Apply concrete stain to the surfaces according to the plan.

D Measurement

The department will measure Concrete Staining Multi-Color (structure) in area by the square foot of surface, acceptably prepared and stained.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1015.S.01	Concrete Staining Multi-Color R-13-387	SF
517.1015.S.02	Concrete Staining Multi-Color R-13-388	SF
517.1015.S.03	Concrete Staining Multi-Color R-13-389	SF
517.1015.S.04	Concrete Staining Multi-Color R-13-390	SF

Payment is full compensation for furnishing and applying the coloring system; for preparing the concrete surface; and for constructing and staining the sample panels.

stp-517-115 (20140630)

44. Architectural Surface Treatment R-13-387, Item 517.1050.S.01; Architectural Surface Treatment R-13-388, Item 517.1050.S.02; Architectural Surface Treatment R-13-389, Item 517.1050.S.03; Architectural Surface Treatment R-13-390, Item 517.1050.S.04.

A Description

This special provision describes providing a concrete masonry architectural surface treatment on the exposed concrete surfaces of structures as the plan details show.

B Materials

Use form liners that attach easily to the forming system, and do not compress more than 1/4 inch when poured at a rate of 10 vertical feet/hour.

Use a release agent that is compatible with the form liner and coloring materials.

Wall ties shall have set "break-backs" at a minimum of 3/4 inches from the finished concrete surface.

C Construction

C.1 Equipment

Equipment and tools necessary for performing all parts of the work shall be satisfactory as to design, capacity, and mechanical condition for the purposes intended. Repair, improve, replace, or supplement all

equipment that is not maintained in full working order, or which is proven inadequate to obtain the results prescribed.

C.2 Form Liner Preparation

Clean the form liner before each pour and ensure that it is free of any build-up. Visually inspect each liner for blemishes or tears, and repair if necessary, per manufacturer's recommendations.

Apply form release per manufacturer's recommendations.

C.3 Form Liner Attachment

Place adjacent liners less than 1/4 inch from each other, attach liner securely to forms according to the manufacturer's recommendations, and coordinate wall ties with form liner and form manufacturer, e.g., diameter, size, and frequency.

C.4 Surface Finishing

Ensure that the textured surface is free of laitance; sandblasting is not permitted.

Grind or fill pouring blemishes.

D Measurement

The department will measure Architectural Surface Treatment (structure) in area by the square foot of architectural surface, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S.01	Architectural Surface Treatment R-13-387	SF
517.1050.S.02	Architectural Surface Treatment R-13-388	SF
517.1050.S.03	Architectural Surface Treatment R-13-389	SF
517.1050.S.04	Architectural Surface Treatment R-13-390	SF

Payment is full compensation for producing the proposed architectural surface treatment including: preparing the foundation; finishing and protecting the surface treatment; and for properly disposing of surplus material.

stp-517-150 (20110615)

45. Cover Plates Temporary, Item 611.8120.S.

A Description

This special provision describes providing and removing steel plates to cover and support asphaltic pavement and traffic loading at manholes, inlets and similar structures during milling and paving operations.

B Materials

Provide a 0.25 inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

C (Vacant)

D Measurement

The department will measure Cover Plates Temporary as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	EACH

Payment is full compensation for furnishing, installing, and removing the cover plates.

The steel plates shall become the property of the contractor when no longer needed in the contract work.

stp-611-006 (20151210)

46. Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.

A Description

This special provision describes furnishing and placing polystyrene insulation board as the plans show.

B Materials

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230 as modified in this special provision.

Delete flammability requirement.

B.1 Certification

Before installation, obtain from the manufacturer a certification indicating compliance and furnish it to the project engineer.

C (Vacant)

D Measurement

The department will measure Insulation Board Polystyrene, 2-Inch by area in square yards of work, completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
612.0902.S	Insulation Board Polystyrene, 2-Inch	SY

Payment is full compensation for all excavation; and for furnishing and placing the insulation board.

stp-612-005 (20030820)

47. Fence Safety, Item 616.0700.S.

A Description

This special provision describes providing plastic fence at locations the plans show.

B Materials

Furnish notched conventional metal "T" or "U" shaped fence posts.

Furnish fence fabric meeting the following requirements.

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

C Construction

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

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

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

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

stp-616-030 (20160607)

48. Stone Ditch Checks, Item 628.7515.S.

A Description

This special provision describes furnishing, installing, maintaining, and removing stone ditch checks, either temporary or permanent, as the plans show or as the engineer directs.

B Materials

Furnish materials conforming to the requirements for Riprap Extra Light according to standard spec 606.2.1.

C Construction

Place stone ditch checks immediately after shaping of the ditches is completed. Place stone ditch checks perpendicular to the direction of flow. Construct according to the plan details.

During construction, maintain stone ditch checks by removing sediment whenever it accumulates to one half of the original ditch check height. Remove all accumulated sediment prior to final stabilization.

For temporary installations, remove all materials incorporated into the work when directed by the engineer. Restore areas with topsoil, seed, fertilizer, and other erosion control items as directed by the engineer.

D Measurement

The department will measure Stone Ditch Checks by the cubic yard of material, 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
628.7515.S	Stone Ditch Checks	CY

Payment is full compensation for excavating, furnishing, placing, and shaping Stone Ditch Checks.

Removal of sediment and removal of temporary stone ditch checks will be paid under the Excavation Common bid item by multiplying the measured removal quantity by a factor of ten.

The department will pay separately for restoration and erosion control items under the appropriate contract bid items.

The department will pay separately for Geotextile Type R fabric.

stp-628-050 (20210708)

49. 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)

50. Geogrid Type SR-2, Item 645.0145.S.

A Description

(1) This special provision describes furnishing and installing geogrids for subgrade stabilization, base reinforcement, or pavement structure applications.

B Materials

(1) Furnish geogrid that consists of a single layer of a uniform square or rectangular grid of bonded, formed, or fused polymer tensile strands. Furnish polyester, polypropylene, polyamide, or polyethylene material that maintains dimensional stability during handling, placing, and installation. Use geogrid that is at least 6.0 feet wide.

(2) Protect the geogrid from ultraviolet radiation and from damage due to shipping and handling. Keep the geogrid dry until it is installed. Clearly mark geogrid rolls to identify the material contained.

(3) Furnish manufacturer's certified report of test or analysis that shows that the geogrid delivered meets the requirements of this specification to the engineer at least 15 business days before use in the work. Mark the delivered geogrid to clearly identify it with the applicable test report furnished to the engineer. The engineer will obtain samples of geogrid for testing from the job site for each 10,000 square yards or lesser portion used in the work.

(4) Provide geogrid for subgrade reinforcement that complies with the following physical properties:

Test	Method	Value [1]
Tensile Strength at 5% Strain, (lb/ft)	ASTM D 6637	(MD)[2]: 810 min. (XMD)[2]: 1,340 min.
Overall Flexural Rigidity, (mg-cm)	ASTM D 7748	750,000 min.
Aperture Area (in^2)	Inside Measurement	5.0 max.
Aperture Dimension (in)	Inside Measurement	0.5 min.

[1] Numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

[2] MD is the Machine Direction; XMD is the Cross Machine Direction.

C Construction

(1) Before placing geogrid, establish the placement surface to the required lines, grades, and dimensions the plans show or as the engineer directs. Smooth and shape the surface to eliminate rocks, clods, roots, or other debris that may damage the geogrid during placement or backfilling.

(2) Place geogrid as the plans show or engineer directs. Pull flat and secure using pins, staples, or other devices to prevent movement or displacement. Overlap parallel strips at least 24 inches. Lap butt joints between roll ends at least 24 inches unless the plans specify otherwise. Secure lapped sections together using engineer-approved ties, straps, clips, or other devices. Do not operate vehicles or construction equipment directly on geogrid.

(3) Cover small rips, tears, or defects in the geogrid with an additional section of geogrid secured in place overlapping the damaged area by at least 3 feet in all directions. Remove and replace geogrid sections with large rips, tears, defects, or other damage as the engineer directs before backfilling.

(4) After placement, backfill the geogrid to the depth and with the type of material the plans or special provisions specify. Place, spread, and compact backfill conforming to contract requirements for that

backfill material, except ensure that the initial lift over the geogrid is at least 4 inches deep.

(5) Do not displace or damage the geogrid during backfill operations. The engineer may direct the contractor to repair or replace damaged, displaced, or otherwise defective geogrid and may require equipment and operations changes to prevent further damage or displacement.

D Measurement

(1) The department will measure Geogrid Reinforcement Type SR-2 by the square yard of surface area, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
645.0145.S	Geogrid Type SR-2	SY

(2) Payment is full compensation for furnishing, transporting, and installing the geogrid; furnishing and installing all devices and materials necessary to join or secure the geogrid in place; and preparing the foundation before installation.

stp-645-045 (20250108)

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

A Description

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

B Materials

Use conduits, as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the standard spec.

C Construction

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

D Measurement

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

E Payment

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

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

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.

stp-652-070 (20230629)

52. Lamp, Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.

A Description

This special provision describes the detachment and packaging of lamps, ballasts, LEDs, and mercury containing switches (e.g., overhead roadway lighting, underdeck bridge, wall packs, pedestrian signals, traffic control stop lights and warning flashers, fluorescent bulbs, and thermostats) removed under this contract for disposal as hazardous materials.

For Lamp, Ballast, LED, Switch Disposal by Contractor, coordinate removal from the work site by the department's hazardous waste disposal vendor. Disposal will be billed to the department by the hazardous waste disposal vendor.

B Materials

B.1 Disposal by Contractor

Items removed under this contract will be considered the property of the department for waste generator identification. The contractor is responsible for coordinating with the department's hazardous waste vendor for disposal:

https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/environment/hazwaste-contacts.pdf

C Construction

C.1 Removal

Arrange for the de-energizing of luminaires after receiving approval from the engineer that the existing luminaires can be removed. Do not remove luminaires that cannot be replaced with proposed LED units and operational within the same workday. The new LED units need to be operational prior to sunset of the same workday.

Detach and remove luminaires and lamps from the existing traffic signal poles or respective structure. Avoid breaking fixtures whenever possible.

Lamps, ballasts, LED, and switches will become property of the department, and will be disposed of in an environmentally sound manner.

C.2 Packaging of Hazardous Materials

Provide a secure, level location removed from the travelled way for storage of the material for disposal.

Pack intact fixtures in the packaging of the new lamps used to replace them, or packaging affording the equivalent protection. Place in full, closed stackable cartons.

Pile cartons no more than four high if palletized and secure cartons with shrink wrap to prevent shifting or falling of the loads. Clearly mark each pallet with the words "Universal Waste Lamps" or "Universal Waste Ballasts", the date, and the number of fixtures on each pallet.

Pack broken fixtures into (min.) 6 mil thick plastic bags and place inside sturdy cardboard boxes or the equivalent. Mark the outer packaging with the term "Broken Fixtures/Lamps", the date and the number of broken fixtures clearly marked on the box.

The hazardous waste vendor will not accept fixtures improperly packaged. The vendor will reject any fixtures not removed as part of a contract pay item or otherwise required under this contract.

Pack ballasts and mercury containing switches in appropriate containers.

C.3 Disposal by Contractor

Complete the lamp and ballast inventory (https://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/environment/dotlampballastinventory.dotx) and contact the hazardous waste vendor to coordinate pickup and disposal at a location specified by the contractor. Consolidate all pallets and boxes from one project at a single location. Contact the hazardous waste vendor to set up an appointment for pickup. The hazardous waste vendor requires a minimum of one week advance notice to schedule pickup.

D Measurement

The department will measure Lamp, Ballast, LED, Switch Disposal by Contractor as each individual unit removed and received by the hazardous waste vendor, properly packaged and acceptably completed, matching the total number of units provided on the inventory form. The department will not measure broken fixtures that exceed a total of 10 percent of all fixtures to be disposed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH

Payment for Lamp, Ballast, LED, Switch Disposal by Contractor is full compensation for detachment, handling, packaging, labeling and scheduling disposal with the hazardous waste vendor; and scrapping and disposal of all other materials.

stp-659-500 (20220628)

53. Seismograph 5845-16-73, Item 999.1001.S.

A Description

This special provision describes furnishing seismographs and employing trained operators to monitor construction-induced vibrations on buildings/structures, and submittal of all required documentation.

B Material

Use seismographs conforming to Wisconsin Department of Safety and Professional Services (SPS) 307.43, Wisconsin Administrative Code that are continuous data recorders supplied with all the accessories necessary for making vibration and noise monitoring observations.

C Construction

Conduct monitoring procedures conforming to SPS 307.44 and as follows: Take seismograph readings before construction activities to establish an ambient or background index.

During construction, place seismographs to monitor all vibration-inducing construction activities or as the engineer directs. At a minimum utilize one seismograph. If more than one major construction activity per day is taking place, multiple seismographs may be required. Place seismographs on a stable surface within 3 feet of the building/structure nearest to the construction operation. Provide data recorded for each vibration occurrence to the engineer which includes the following:

1. Identification of vibration monitoring instrument used.
2. Description of equipment used by the contractor.
3. Name of qualified observer and interpreter.
4. Distance and direction of recording station from the vibration area.
5. Type of ground at recording station and material on which the instrument is sitting.
6. Peak particle velocity and principal frequency in each component.
7. A dated and signed copy of records of seismograph readings.
8. A comparison of measured seismograph readings to maximum allowable readings identified in SPS 307.43 or as specified in this special provision.

If construction activities generate ground vibration in excess of the peak particle velocity limits as shown in SPS 307.44, stop the construction operation in progress and implement alternate construction methods to produce results within the allowable peak particle velocity limits.

D Measurement

The department will measure Seismograph as a single unit of work for each project, 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
999.1001.S	Seismograph 5845-16-73	EACH

Payment is full compensation for furnishing and operating seismographs, operators, and for producing documentation reports

stp-999-005 (20230629)

54. Crack and Damage Survey, Item 999.1501.S.

A Description

This special provision describes conducting a crack and damage survey of the residences and business located at the following:

Project 5845-16-73:

624 W Main Street

700 W Main Street

708 W Main Street

716 W Main Street

724 W Main Street

808 W Main Street

816 W Main Street

824 W Main Street

832 W Main Street

224 S Van Buren Street

Project 5845-16-74:

Parcel 52 – 2023 Barber Drive

Parcel 53 – 2019 & 2021 Barber Drive

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.

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)

55. Subsoiling, Item SPV.0005.01.

A Description

This special provision describes subsoiling designated areas as shown on the plans or as directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction

Subsoil the designated area as shown in the plans or as directed by the engineer after topsoil or compost placement. Schedule a 500-square-foot test area and demonstrate competence to the engineer for either swale and slope subsoiling, or basin subsoiling, prior to continuing operations. The Engineer shall identify the test area. Subsoiling shall consist of two operations: deep tilling passes and a surface mixing pass. For the deep tilling passes, loosen subsoiled areas to a depth of 20 inches of the in-place material and placed topsoil or compost. For the surface mixing pass, loosen the subsoiled areas to a depth of 6 to 8 inches. After obtaining approval by the engineer that the equipment and methods are sufficient to perform the work, complete the subsoiling operation for the designated areas within the project. Work done without the engineer approval will be considered as unauthorized work.

For the deep tilling passes, create subsoiling channels with a commercially available, multi-shanked implement attached to track-type equipment. There shall be a minimum of two shanks on the equipment, with each shank located behind a track so that the soil is loosened after it is tracked. Do not pull the shanks through previous channels, but instead create multiple channels. The equipment shall be capable of exerting a penetration force necessary for the site. No disc cultivators, chisel plows, or spring-loaded equipment will be allowed. Space the grid channels 24 to 30 inches apart, depending on equipment, site conditions, and the plan. The channel depth shall be to a minimum of 20 inches.

For the surface mixing pass, use a disk chisel or coulter chisel plow with twisted points, or other approved implement, to mix the top 6 to 8 inches of the soil. Do the operation in one pass with a commercially available implement attached to track-type equipment applying no more than 5 psi of pressure or to a tractor with a minimum of two tires per axle. The equipment shall be capable of exerting a penetration force necessary for the site.

If soils are saturated, delay operations until the soil dries to field capacity or less. Field capacity is the amount of water retained in the soil after it has been saturated and allowed to drain freely.

C.1 Swale and Slope Subsoiling

Complete the deep tilling operation in three passes for each ten feet of swale width. On erodible slopes steeper than 6 horizontal to 1 vertical (6:1), work at right angles to the direction of surface drainage whenever practical. Follow this with a surface mixing pass parallel to the direction of ditch flow.

C.2 Basin Subsoiling

Perform the deep tilling operation in two sets of passes to form a two-directional (90°) grid. Follow this with a surface mixing pass completed in either direction.

C.3 Exceptions

Area exceptions to subsoiling include areas within the drip line of any existing trees, over utility installations within 30 inches of the surface, when trenching/drainage lines are installed, where compaction is by design (abutments, footings or inslopes steeper than 4:1), and inaccessible slopes, as approved by the engineer. In cases where exceptions occur, observe a minimum setback as directed by the engineer.

C.4 Finish Grading

Upon completion of the subsoiled area, finish grade the area as described in standard spec 625.3.3, except that only light-weight equipment as approved by the engineer may be used. Drive no other equipment over the subsoiled area after the area has been finish-graded. Any subsoiled areas that are re-compacted shall be subsoiled and finish-graded at no expense to the department.

D Measurement

The department will measure Subsoiling by the acre, 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.0005.01	Subsoiling	ACRE

Payment is full compensation for subsoiling designated areas shown on the plans or as directed by the engineer; and performing finished grading operations of these subsoiled areas.

56. Lightweight Foamed Concrete Fill Grade 1, Item SPV.0035.50; Lightweight Foamed Concrete Fill Grade 2, Item SPV.0035.51.

A Description

A.1 General

This special provision describes designing, providing and placing Lightweight Foamed Concrete Fill, hereafter referred to as LFCF material, for backfill and embankments at locations designated on the plans.

A.2 Terms

Whenever in this article the following terms are used, the intent and meaning shall be interpreted as follows:

LFCF Manufacturer – The manufacturer of the foam agent used to make LFCF.

LFCF Installer – The subcontractor responsible for batching, and mixing the LFCF onsite, and placing the LFCF in accordance to the contract documents.

Contractor – General contractor as defined in the standard specifications.

B Materials

B.1 General

Furnish materials meeting the following requirements:

Portland Cement and Portland Pozzolan Cement	standard spec 501.2.4
Water	standard spec 501.2.6
Air Entraining Admixtures	standard spec 501.2.5.2
Water Reducing Admixtures	standard spec 501.2.5.3
Set Retarding Admixtures	standard spec 501.2.5.3
Fine Aggregates	standard spec 501.2.7
Curing Materials	standard spec 502.2.8
Fly Ash	standard spec 501.2.4.2.2
Damp Proofing	standard spec 516.2.1

Pozzolans and admixtures (for accelerating, water reducing, retaining, improving the bond, etc.) may only be used if specifically designated and approved by the LFCF manufacturer.

B.2 LFCF Material Specifications

The foaming agent from the selected manufacturer will produce a Lightweight Foamed Concrete Fill Material, complying with the specifications in Table 1 below.

Table 1 – LFCF Material Requirements

Property	Grade 1	Grade 2	Test Method
Cast Density (after pumping)	72.0 – 82.0 pcf	44.0 – 50.0 pcf	ASTM C 796
Maximum Dry Density	77.0 pcf	46.0 pcf	ASTM C 796
Minimum Dry Density	67.0 pcf	40.0 pcf	ASTM C 796
Unconfined Compressive Strength	45 psi minimum at 7 days curing 70 psi minimum at 28 days curing	25 psi minimum at 24 hours curing 120 psi minimum at 28 days curing	ASTM C 796 or ASTM C495
Coefficient of permeability	1 x 10^{-5} cm/sec 2.0 psi	1 x 10^{-5} cm/sec 2.0 psi	ASTM D-96

C Construction

C.1 Submittals

C.1.1 LFCF Placement Plan

Submit a LFCF quality control and placement plan. Place the abutment backfill and embankment in accordance to the information provided in the submitted, accepted plan. No later than two weeks prior to LFCF placement, submit the plan to the engineer for review and comment. Do not begin LFCF production before the plan has been reviewed and accepted by the engineer. The submitted plan shall provide, as a minimum, the following elements:

1. An organizational chart including names, telephone numbers, current certifications and/or titles, and roles and responsibilities of all those involved with the quality control program.
2. The process of communication by which quality control information will be disseminated to the appropriate persons**,** including materials suppliers. This shall include a list of recipients, the communication means that will be used, action time frames**,** and report formats.
3. Materials list of items proposed to be provided under this section.
4. Specifications, catalog cuts, and other engineering data needed to demonstrate compliance with the specified requirements.
5. Proof of LFCF installer's compliance with the requirements in section C2, to include a list of projects with completion date, owner's name and phone number, and contact person.
6. Mix designs for the LFCF, prepared by the LFCF manufacturer or installer, showing compliance with the specified properties.
7. Certification of batch, mixing and placing equipment by the LFCF installer meeting the requirements of section C.3 hereinafter.
8. Written documentation that LFCF installer is certified by and approved by the foam agent manufacturer.
9. LFCF curing procedures.

C.1.2 Trial Batch Design and Testing

At least two weeks prior to placement, prepare a trial batch and submit trial batch testing results showing that the proposed LFCF material properties comply with the requirements of this specification. The accepted trial batch mix design and tested properties will become the standard of the material furnished under this contract.

C.1.3 Quality Assurance Samples

Submit the mix design to the engineer for review and approval 14 days prior to placement. At least two weeks prior to placing, submit 10 3-inch diameter by 6-inch-high cylinder samples of the as designed and

tested LFCF to the department. Cover specimens after casting to prevent loss of moisture. Do not oven dry specimens. At the department's option, the samples may be tested for strength and density in accordance to the requirements of ASTM C495 and ASTM C796 to verify the submitted test results and validate the contractor's testing procedures and quality of the furnished product.

C.2 Personnel Requirements

The Lightweight Foamed Concrete Fill installer, hereafter referred to as the LFCF installer, shall be certified by the manufacturer of the foaming agent and regularly engaged in the production and placement of the Lightweight Foamed Concrete Fill (LFCF). This shall include the completion of lightweight foamed concrete fills having a minimum of 10,000 total cubic yards in the past 5 years. Furthermore, the material shall have been successfully applied on at least three LFCF projects, consisting of mass fills for Federal and State highways, which have performed satisfactorily for at least five years.

The LFCF installer shall be certified and approved in writing by the foam agent manufacturer. The installer's foreman shall have a minimum of 2 years experience in this work and shall have worked on at least three successful LFCF projects.

The LFCF installer shall use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are familiar with the specified requirements and the methods needed for proper performance of the work noted in this specification.

The foam agent manufacturer's representative (LFCF Manufacturer) shall be experienced in the placement of LFCF and shall be on site full-time during placement.

C.3 Equipment Requirements

The specialized batching, mixing, and placing equipment shall be automated and certified for this purpose by the manufacturer of the LFCF material. Bulk cement shall be weighed on a scale which operates within a tolerance of one half of one percent (0.5%) per batch. Foam shall be added and mixed at the site using the aforementioned equipment. Transit mixers and volumetric batching mixers are not acceptable.

C.4 Required Contractor Testing

The contractor is responsible for conducting acceptance testing and providing test results to the engineer prior to and during the installation of the LFCF.

C.4.1 Cast Density of Field Installed LFCF

Test cast density in accordance to ASTM C 796

1. Prior to placement of the initial batch, the installer shall check the density and adjust the mix as required to obtain the manufacturer's specified cast density at point of placement.
2. At hourly intervals during placement, monitor the density and adjust as necessary to maintain the specified cast density.

C.4.2 Strength Testing

Conduct strength testing in accordance to ASTM C 796 except do not oven dry the test specimens.

1. Furnish a sufficient quantity of molded and cured cylinders measuring 3-inches in diameter by 6-inches high for required strength tests. Provide molds, and a similar curing environment of the LFCF being tested. Prepare cylinders in accordance to ASTM C1064.
2. Provide certified strength test results to the engineer for acceptance. At a minimum, conduct a set of three strength tests at 1, 2, and 28 day intervals for each 500 cubic yards of LFCF placed and a minimum of two sets of four cylinders each per day.
3. The Department will conduct 1 quality verification (QV) test per 5 Contractor quality control (QC) tests.

C.5 Laboratory Requirements

Perform the LFCF compressive strength testing at a department qualified laboratory. Information on the Wisconsin Laboratory Qualification Program may be obtained from the Quality Management Section, Wisconsin department of Transportation, Bureau of Highway Construction, Truax Center, 3502 Kinsman Blvd., Madison, WI, 53704; telephone (608) 266-3246; or on the internet at: www.dot.state.wi.us. If approved by the department, the compressive testing may also be conducted at the LFCF manufacturer's facility with test results reported as noted.

C.6 Placement

LFCF shall be a homogeneous mixture. Obtain acceptance of all materials prior to use.

Prepare the areas to be filled in accordance to standard spec 206.3.8. Remove standing water in the test areas prior to placement of the LFCF. Ensure the LFCF remains above the water table at all times during construction.

Subgrade for LFCF fill will be prepared in accordance to standard spec 211.

Protect material before, during and after installation, and protect the work and materials of other trades. In the event of damage, immediately make replacements and repairs to the acceptance of the engineer at no additional cost to the department.

If the LFCF must be placed in freezing susceptible conditions, consult the manufacturer as to what precautions are necessary to assure installation of an acceptable LFCF. Do not place LFCF at a temperature of less than 32 degrees Fahrenheit, nor when freezing conditions are expected in less than 24 hours, unless precautions are taken to maintain temperatures above freezing. Do not place LFCF on frozen ground or material.

Cure LFCF in accordance to the accepted placement plan.

Proportion, mix, and place LFCF only using equipment approved by the manufacturer as indicated in the accepted LFCF placement plan. Once mixed, convey the LFCF concrete promptly to the location of placement without excessive handling.

Move the discharge hose(s) sufficiently to ensure level filling through the specified fill area. Uneven filling is not permitted.

The discharge hose length shall not exceed 800 feet in length.

Place LFCF in lifts not exceeding 24-inches in depth unless greater depths are allowed on the plans**.**

Scarify each lift before placing the next lift. Scarify each lift to a minimum depth of ½-inch using a hand rake or other suitable means. When LFCF is used as backfill within MSE wall anchor zones, take special care when scarifying to not disturb the alignment of or physically damage the MSE wall reinforcing strips/mesh. Scarify after sufficient curing time such that foot traffic will not excessively damage the lift surface (no greater than ¼ inch indentation). Remove any loose debris or material as a result of the scarification process by blowing or other suitable means before placing the next LFCF lift.

Allow a minimum of one day (24 hours) between subsequent lifts. Prior to verification of the minimum specified compressive strength by testing, additional lifts may be placed after the one day minimum at the contractor's risk. Any material that does not meet the minimum specified strength within 28 days shall be removed and replaced by the contractor at no additional cost.

Limit the area of placement to the volume that can be placed within one hour, up to the maximum 2 foot lift height. Stagger placements such that the vertical joints are at least 10 feet apart except at designated vertical slip joints.

Where indicated on the plans, form a vertical slip joint across the entire width of LFCF embankments. The slip joint shall consist of a cold-formed joint in the LFCF, created by placing the LFCF on one side of the joint against a vertical rigid form. After removal of the form, place the LFCF on the opposite side of the joint against the previously placed LFCF with a suitable bond breaker between the placements. Bond breaker shall be plastic sheeting, geotextile fabric, or other means acceptable to the engineer.

Place LFCF to the limits and grades shown in the plans with top of the LFCF within $\pm$ 0.1 foot of the elevations shown on the plans. Slope the top of the LFCF as indicated on the plans to provide drainage and prevent the ponding of water on the top of the LFCF. If not achieved at the time of placement, the top slope can be achieved by cutting, grinding or excavating the cured LFCF using methods approved by the engineer provided this is done in such a manner to leave a reasonably smooth, free draining surface without damaging the integrity of the underlying LFCF that remains.

Paving machines, heavy construction equipment or other unusual loading of the LFCF shall not be permitted until it has attained the specified 28-day compressive strength, and the loading is approved by the engineer.

Sawing or ripping of the LFCF for utilities, underdrain or other conflicts will be by methods approved by the engineer. Backfill such cuts and excavations into the LFCF to the original top of LFCF elevation using the same grade of LFCF material that was removed.

C.7 Damp Proofing

Apply damp proofing conforming to standard spec 516 to the final horizontal and vertical surfaces of the LFCF material at locations designated on the plans.

C.8 Acceptance

Rectify any LFCF material rejected by the engineer that does not meet the minimum required material properties or is not installed in accordance to this article. Corrective measures are subject to the approval of the engineer. Accepted corrected measures will be performed by the contractor at no additional cost to the department or extension of contract time. This includes removal and replacement of rejected LFCF material not meeting the minimum material requirements or installed in accordance to this article.

D Measurement

The department will measure Lightweight Foamed Concrete Fill Grade 1 and Lightweight Foamed Concrete Fill Grade 2, by the cubic yard of LFCF material acceptably placed within the limits shown on the plans in accordance to this specification. LFCF material placed outside the limits shown on the plans will not be measured for payment unless authorized in advance of placement by the engineer.

When indicated on the plans, LFCF placed as backfill within the anchor zone of Mechanically Stabilized Earth (MSE) retaining walls in lieu of granular backfill, will not be measured separately for payment, and will be included in the cost of item Wall Concrete Panel Mechanically Stabilized Earth.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.50	Lightweight Foamed Concrete Fill Grade 1	CY
SPV.0035.51	Lightweight Foamed Concrete Fill Grade 2	CY

Payment is full compensation for preparation of written submittals; material testing; coordination and scheduling of LFCF placement; onsite LFCF Manufacturer representative, specialized equipment to mix, transport and place LFCF; providing and erecting forms; bond breakers; and for groundwater control and temporary shoring.

Damp proofing will be measured and paid for separately in accordance to standard spec 516.

57. Cobble/Field Stone Mix, Item SPV.0035.52.

A Description

This special provision describes furnishing and placing Cobble/Field Stone Mix at the locations shown on the plans, or as directed by the engineer, and in accordance with the pertinent requirements of standard spec 606 and as herein provided.

B Materials

Furnish Cobble/Field Stone Mix that is natural, rounded, uncrushed and consists of 50 percent field stone ranging in diameter from 8 to 12 inches and 50 percent cobblestone ranging in diameter from 3 to 8 inches.

C Construction

Install and compact the Cobble/Field Stone Mix as construction progresses. Make the finished surface even and tight. Place larger stones in the lower courses. Shape as shown in the plans.

D Measurement

The department will measure Cobble/Field Stone Mix by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.52	Cobble/Field Stone Mix	CY

Payment is full compensation for furnishing, placing, and shaping Cobble/Field Stone Mix.

58. Rock Cross Vanes, Item SPV.0035.53.

A Description

This special provision describes furnishing and placing Rock Cross Vanes within a stream channel as shown on the plans.

B Materials

Provide materials conforming to standard spec 606.2.1 requirements for riprap extra-heavy. Substituting waste concrete slabs for stones is not allowed. Provide key boulders consisting of riprap extra-heavy boulders with an average dimension of 18 to 24 inches.

C Construction

Place riprap as the plans show or the engineer directs. Prepare the foundation of the cross vane by excavating to the depths shown in the plans. Place stone by hand or mechanical means, meeting requirements shown in the plan. Excavate pool downstream of cross vane immediately after constructing cross vane, as shown in the drawings. Place Geotextile Type HR behind cross vane boulders and backfill with Cobble/Field Stone Mix. The department will measure Geotextile Type HR and Cobble/Field Stone Mix separately.

D Measurement

The department will measure Rock Cross Vanes by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.53	Rock Cross Vanes	CY

Payment is full compensation for excavating trench to place Rock Cross Vane boulders, furnishing, placing, and shaping Rock Cross Vane boulders as shown on the plans. The department will pay for Geotextile Type HR and Cobble/Field Stone Mix separately.

59. Cascade Riffle Material, Item SPV.0035.54.

A Description

This special provision describes furnishing and placing Cascade Riffle Material within a stream channel, as shown on plans.

B Materials

Provide materials conforming to standard spec 606.2.1 requirements for riprap, with sizes ranging from 12 to 24 inches in diameter. Substituting waste concrete slabs for stone is not allowed.

C Construction

Excavate trenches to the extents shown in the plan to effectively place both the footer and header boulder. Place boulders by hand or mechanical means, meeting requirements shown in the plans. Boulders must be keyed into the stream embankment by 4 feet on both sides. Construct pools directly after each row of footer and header boulders as shown in the plans.

D Measurement

The department will measure Cascade Riffle Material by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.54	Cascade Riffle Material	CY

E Payment

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

Payment is full compensation for furnishing, placing, and shaping Cascade Riffle Material.

60. Inlet Covers Flat Temporary, Item SPV.0060.01.

A Description

This special provision describes furnishing, installing, adjusting and removing temporary inlet covers on existing storm sewer structures at locations shown in the plans.

B Materials

Furnish inlet covers per the pertinent requirements of standard spec 611. Provide open grates for drainage, traversable by vehicle and bicycle traffic, and rated for traffic loading.

C Construction

Remove the existing inlet or manhole cover and place the temporary inlet cover on the existing structure with the necessary adjustments per standard spec 611. Adjust and set the grade of the inlet cover to meet the final surface of the temporary pavement for traffic lanes. Bolt inlet covers placed within lanes open to traffic to the inlet or inlet frame.

Remove the temporary inlet cover once no longer needed in the temporary traffic lanes.

D Measurement

The department will measure Inlet Covers Flat Temporary as each individual temporary flat inlet cover, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Inlet Covers Flat Temporary	EACH

Payment is full compensation for furnishing temporary inlet covers, including frames, grates or lids; for furnishing all necessary bolting; and for furnishing all other required materials and for installing, adjusting, and removing each cover. Upon removal, the temporary inlet cover becomes the property of the contractor.

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61. Habitat Boulder, Item SPV.0060.02.

A Description

This special provision describes furnishing and placing Habitat Boulders in gravel riffles, as shown on the plans or directed by the engineer.

B Materials

Provide materials conforming to standard spec 606.2.1 requirements for riprap, with sizes ranging from 12 to 24 inches in diameter. Substituting waste concrete slabs for stones is not allowed.

C Construction

Install the Habitat Boulder in the locations directed by the engineer by hand or mechanical means.

D Measurement

The department will measure Habitat Boulder by each individual habitat boulder, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Habitat Boulder	EACH

Payment is full compensation for furnishing and placing Habitat Boulder

62. Research and Locate Existing Land Parcel Monuments, Item SPV.0060.03.

A Description

This special provision describes researching and locating existing land parcel or boundary monuments located in permanent easements, temporary easements, or construction permit areas, which may be lost or disturbed by construction operations.

This provision does not relinquish the contractor's responsibility of standard spec 107.11.

B (Vacant)

C Construction

Perform work by, or under the direction of, a professional land surveyor licensed in the State of Wisconsin.

Before construction, research, locate and document monuments located in permanent easements, temporary easements, and construction permit areas. Establish coordinate ties to the monuments to satisfy Wisconsin Administrative Code Chapter AE-7.

Prepare a monument location map showing the type of monuments found and their coordinates. The transportation project plat (TPP) is acceptable as a base map for the monument location map. Provide a copy of the monument location map to the engineer, Dane County Surveyor and SW Region-Madison Plat Coordinator.

Contact Information

WisDOT SW Region-Madison Survey Coordinator

Jarod Alvarez

608-246-7918

jarod.alvarez@dot.wi.gov

Dane County Surveyor

Dan Frick

608-266-4252

frick@countyofadne.com

Verify and reset monument locations after construction is complete under the item titled "Verify and Replace Existing Land Parcel Monuments."

D Measurement

The department will measure Research and Locate Existing Land Parcel Monuments as each individual monument acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Research and Locate Existing Land Parcel Monuments	EACH

Payment is full compensation for all research, field survey, locating, and data recording necessary to locate and establish coordinates for existing monuments within the construction limits before construction; furnishing a professional land surveyor; preparing, annotating, and delivering the monument location map.

63. Verify and Replace Existing Land Parcel Monuments, Item SPV.0060.04.

A Description

This special provision describes verifying the final location of, and replacing existing land parcel or boundary monuments, previously located under the item "Research and Locate Existing Land Parcel Monuments", that are lost or disturbed by construction operations.

This provision does not relinquish the contractor's responsibility of standard spec 107.11.

B Materials

Provide minimum sized replacement monuments as follows:

- Locations outside of pavement areas:
  - 1-inch inside diameter by 24-inch long iron pipe
  - 3/4-inch diameter by 24-inch long rod or rebar
- Locations in asphalt pavement areas:
  - Survey spike
  - Mag nail
- Locations in concrete pavement areas:
  - Drilled hole
  - Chiseled mark

C Construction

Perform work by, or under the direction of, a professional land surveyor licensed in the State of Wisconsin.

After construction is completed, verify the location of all monuments previously located with the item "Research and Locate Existing Land Parcel Monuments". Replace any monuments that were disturbed or destroyed to current minimum state survey standards.

Prepare a monument location map showing the type of monuments originally found, the type of replacement monuments used to replace the disturbed or destroyed monuments, and monument coordinates. The transportation project plat (TPP) is acceptable as a base map for the monument location map. Create the location map with a PDF editing tool such as Adobe or Bluebeam. The monument location map shall explicitly state that the replaced monuments are not being certified as actual land parcel or boundary monuments, only that evidence of monuments were found and replaced. Attach a cover letter to the location map that contains a brief synopsis of the work completed. The cover letter shall be signed, stamped, and dated by a professional land surveyor. Provide a copy of the monument location map and cover letter to the engineer, the Dane County Surveyor, and the SW Region-Madison Plat Coordinator.

Contact Information

WisDOT SW Region-Madison Survey Coordinator

Jarod Alvarez

608-246-7918

jarod.alvarez@dot.wi.gov

Dane County Surveyor

Dan Frick

608-266-4252

frick@countyofadne.com

D Measurement

The department will measure Verify and Replace Existing Land Parcel Monuments as each individual monument 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	Verify and Replace Existing Land Parcel Monuments	EACH

Payment is full compensation for all survey work necessary to verify the location of all monuments previously located under the item "Research and Locate Existing Land Parcel Monuments"; replacing monuments that were disturbed or destroyed from their original location; furnishing monuments or other necessary tools; furnishing a professional land surveyor; preparing, annotating and delivering the monument location map and cover letter.

64. Pedestal Bases – Black, SPV.0060.05; Transformer Bases Breakaway 11 1/2-Inch Bolt Circle - Black, SPV.0060.06; Poles Type 2 - Black, SPV.0060.07; Poles Type 3 - Black, SPV.0060.08 Poles Type 4 - Black, SPV.0060.09; Poles Type 5 - Aluminum - Black, SPV.0060.10; Poles Type 10 - Black, SPV.0060.11; Poles Type 13 - Black, SPV.0060.12; Traffic Signal Standards Aluminum 3.5-FT - Black, SPV.0060.13; Traffic Signal Standards Aluminum 15-FT - Black, SPV.0060.14; Monotube Arms 30-FT - Black, SPV.0060.15; Monotube Arms 35-FT - Black, SPV.0060.16; Trombone Arms 15-FT - Black, SPV.0060.17; Luminaire Arms Truss Type 4-Inch Clamp 6-FT - Black, SPV.0060.18; Luminaire Arms Truss Type 4 1/2-Inch Clamp 10-FT - Black, SPV.0060.19; Luminaire Arms Steel 6-FT - Black, SPV.0060.20; Luminaires Utility LED B - Black, SPV.0060.21; Luminaires Utility LED C - Black, SPV.0060.22; Lighting Units Walkway - Black, SPV.0060.23; Luminaires Underdeck LED B - Black, Item SPV.0060.25; Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT – Black, SPV.0060.995; Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT – Black, SPV.0060.996.

A Description

This special provision describes furnishing and installing black traffic signal and street lighting components at the locations shown in the plan, according to the pertinent requirements of standard specs 653, 657, and 659, and as hereinafter provided.

B Materials

Furnish materials conforming to sections 653.2, 657.2 and 659.2 of the standard specifications except as follows:

Add the following to standard spec 653.2.(2):

All junction box covers shall be factory black powder coat finished.

Add the following to standard spec 657.2:

All poles, standards, and arms shall be factory black powder coat finished. Pedestal and transformer bases shall also be factory black powder coat finished, matching the color of the poles.

Add the following to standard spec 659.2:

All luminaire units shall be factory painted black.

C Construction

Install materials conforming to sections 653.3, 657.3, and 659.3 of the standard specifications except as follows:

Add the following to standard spec 653.3(2):

Touch-up and repair damage to black equipment with matching material. All new black equipment must be touched-up, repaired, and accepted by the department.

Add the following to standard spec 657.3.1.1:

(2) Touch-up and repair damage to black equipment with matching material. All new black equipment must be touched-up, repaired, and accepted by the department.

D Measurement

The department will measure all items under this special provision as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Pedestal Bases - Black	EACH
SPV.0060.06	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle - Black	EACH
SPV.0060.07	Poles Type 2 - Black	EACH
SPV.0060.08	Poles Type 3 - Black	EACH
SPV.0060.09	Poles Type 4 - Black	EACH
SPV.0060.10	Poles Type 5 - Aluminum - Black	EACH
SPV.0060.11	Poles Type 10 - Black	EACH
SPV.0060.12	Poles Type 13 - Black	EACH
SPV.0060.13	Traffic Signal Standards Aluminum 3.5-FT - Black	EACH
SPV.0060.14	Traffic Signal Standards Aluminum 15-FT - Black	EACH
SPV.0060.15	Monotube Arms 30-FT - Black	EACH
SPV.0060.16	Monotube Arms 35-FT - Black	EACH
SPV.0060.17	Trombone Arms 15-FT - Black	EACH
SPV.0060.18	Luminaire Arms Truss Type 4-Inch Clamp 6-FT - Black	EACH
SPV.0060.19	Luminaire Arms Truss Type 4 1/2-Inch Clamp 10-FT - Black	EACH
SPV.0060.20	Luminaire Arms Steel 6-FT - Black	EACH
SPV.0060.21	Luminaire Utility LED B - Black	EACH
SPV.0060.22	Luminaire Utility LED C - Black	EACH
SPV.0060.23	Lighting Units Walkway - Black	EACH
SPV.0060.25	Luminaires Underdeck LED B - Black	EACH
SPV.0060.995	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT – Black	EACH
SPV.0060.996	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT – Black	EACH

Payment is full compensation for conforming to standard spec 653.5, 657.5, and 659.5.

65. Toe Wood Logs, Item SPV.0060.24.

A Description

This special provision describes placing logs with anchor stones within a stream embankment as shown on the plans.

B Materials

Provide logs of the diameters and lengths shown on the plans from trees previously cut and left within project limits. Logs that will be perpendicular to flow shall have the rootwad still attached. Provide Erosion Mat Class II Type C conforming to standard spec 628.2.1.2.

C Construction

Begin work in dry weather after the stream has been diverted and the site has been dewatered. Excavate to the streambed elevation and place footer logs as shown in the plans to serve as foundation for rootwad. Single footer logs shall serve as the foundation for a single rootwad. Place rootwads perpendicular to the footer logs at the location and spacing as specified in the plans. Backfill empty voids with woody debris and layer native material on top of the woody debris. Place erosion mat and embankment on top of native material to the bankfull elevation as specified in the drawings provided. Finish area as shown in the plan. Dispose of any excess materials.

D Measurement

The department will measure Toe Wood Logs by each location, acceptably completed. Footer logs, rootwads, woody debris, and erosion mat for soil lift are part of the Toe Wood Logs assembly and are not measured separately.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.24	Toe Wood Logs	EACH

Payment is full compensation for excavation and shaping of area, providing and placing rootwad and footer logs, providing and placing woody debris, providing and placing erosion mats and wood stakes, backfilling, shaping, and disposing of excess material. The department will pay separately for finishing items on top of soil lift. Footer logs, rootwads, woody debris, and erosion mat for soil lift are part of the Toe Wood Logs assembly and are not paid for separately.

66. Signal Controller and Cabinet (USH 51 & Van Buren St), Item SPV.0060.26; Signal Controller and Cabinet (USH 51 & Kings Lynn Rd), Item SPV.0060.27.

A Description

This special provision describes furnishing and installing traffic signal cabinets and controllers at the intersection of USH 51 & Van Buren St and the intersection of USH 51 & Kings Lynn Rd.

B Materials

B.1 General

This specification sets forth the minimum requirements for a TS2 Type 1 traffic control modular cabinet assembly. The cabinet assembly shall meet, as a minimum, all applicable sections of the furnish and install equipment and assemble the cabinet conforming to the latest revision of NEMA Standards Publication TS 2 Version 2.06 (R2008) with Amendment 3-2009, Traffic Controller Assemblies with NTCIP Requirements, National Electrical Manufacturers Association, hereinafter called NEMA TS2 Standard. Where differences occur, this specification shall govern. Provide arc flash protection within the cabinet as needed to satisfy NFPA 70E and OSHA requirements.

B.2 Cabinet Design and Construction:

a. Each cabinet shall be factory black powder coat finished.

b. Each cabinet shall be constructed from type 5052-H32 aluminum with a minimum thickness of 0.125 inches.

c. Each cabinet shall be designed and manufactured with materials that will allow rigid mounting, whether intended for pole, base or pedestal mounting. The cabinet must not flex on its mount.

d. A rain channel shall be incorporated into the design of the main door opening to prevent liquids from entering the enclosure. The cabinet door opening must be a minimum of 80 percent of the front surface of the cabinet. A stiffener plate shall be welded across the inside of the main door to prevent flexing.

e. The top of the cabinet shall incorporate a 1-inch slope toward the rear to prevent rain accumulation.

f. All surfaces shall be free from weld flash. Welds shall be smooth, neatly formed, free from cracks, blow holes and other irregularities. All sharp edges shall be ground smooth.

g. All seams shall be sealed with RTV sealant or equivalent material on the interior of the cabinet.

h. Each cabinet shall be supplied with a minimum of two removable shelves, manufactured from 5052-H32 aluminum. Shelves shall be a minimum of 10 inches deep, with back stop to prevent items from rolling off of the back of the shelf. One Computer Drawer Shall Be included with the cabinet and mounted on the lowest shelf.

i. Shelves shall have horizontal slots at the rear and vertical slots at the front of the turned down side flange. Shelves shall be installed by first inserting the rear edge of the shelf on the cabinet rear sidewall mounting studs, then lowering the shelves on the front sidewall mounting studs. Shelves shall be held in place by a nylon tie-wrap inserted through holes on the front edge of the shelf and around the front sidewall mounting studs.

j. The front edge of the shelf shall have holes punched every 6 inches to accommodate tie-wrapping of cables/harnesses.

k. A minimum of one set of vertical "C" channels shall be mounted on each interior wall of the cabinet for the purpose of mounting the cabinet components. The channels shall accommodate spring mounted nuts or studs. All mounting rails shall extend to within 7 inches of the top and bottom of the cabinet. Sidewall rail spacing shall be 7.88 inches center-to-center. Rear wall rail spacing shall be 18.50 inches center-to-center.

l. A 1 inch diameter electrical trade size conduit hole with removable and reusable snap plug shall be provided on each side of the cabinet to facilitate lifting during installation. The holes shall be placed so as to allow placing a piece of conduit through the cabinet to extend out both sides of cabinet.

m. The main door and police door-in-door shall close against a weatherproof and dust-proof, closed-cell neoprene gasket seal. The gasket material for the main door shall be a minimum of 0.250 inches thick by 1.00 inch wide. The gasket material for the police door shall be a minimum of 0.250 inches thick by 0.500 inches wide. The gaskets shall be permanently bonded to the cabinet.

n. The lower section of the cabinet shall be equipped with a louvered air entrance. The air inlet shall be large enough to allow sufficient air flow per the rated fan capacity. Louvers must satisfy the NEMA rod entry test for 3R ventilated enclosures. A non-corrosive, vermin- and insect-proof, 12”x16” metal filter cover shall cover the removable air filter. The filter shall fit snugly against the cabinet door wall. The metal filter cover shall be secured in place by a swivel spring- loaded retaining arm. The metal filter cover shall be louvered downward such as to force any water spray towards the bottom of the cabinet.

o. The roof of the cabinet shall incorporate an exhaust plenum with a vent screen. Perforations in the vent screen shall not exceed 0.125 inches in diameter.

p. The main door on the cabinet shall be equipped with a three-point latching mechanism.

q. The handle on the main door to the cabinet shall utilize a shank of 5/8 inches minimum diameter. The handle shall include a hasp for the attachment of an optional padlock. The cabinet door handle shall rotate counter-clockwise to open. The handle shall not extend beyond the perimeter of the main door at any time. The lock assembly shall be positioned so that the handle shall not cause any interference with the key when opening the cabinet door.

r. The main door hinge shall be attached in such a manner that no rivets or bolts are exposed.

s. The main door shall include a mechanism capable of holding the door open at approximately 90, 125, and 150 degrees under windy conditions. Manual placement of the mechanism shall not be required by field personnel.

t. The main door shall be equipped with a Corbin tumbler lock number 1548-1 or exact equivalent. Minimum of two keys shall be supplied.

u. The police door-in-door shall be provided with a treasury type lock Corbin No. R357SGS or exact equivalent and a minimum of one key.

v. All base mounted cabinets require anchor bolts to properly secure the cabinet to its base. The cabinet flange for securing the anchor bolts shall not protrude outward from the bottom of the cabinet. Four (4) ¾ inch galvanized anchor bolts shall be supplied to provide proper installation. A set of ½ inch thick rubber mounting gaskets shall be supplied to provide proper seal between the cabinet flange and the concrete foundation.

w. Each cabinet shall be of sufficient size to accommodate all equipment. Optional cabinet sizes shall be as follows:

    1) 77”H x 44” W x 24” D (for controller cabinet).

    2) 65”H x 44” W x 24” D (for controller cabinet).

    3) 55”H x 44” W x 24” D (for controller cabinet).

B.3 Terminals and Facilities/Main Panel Design and Construction:

a. The main panel shall be constructed from 5052-H32 brushed aluminum of 0.125 inches minimum thickness and installed so as to minimize flexing when plug-in components are installed.

b. All 16-position main panels shall be provided with a mounting mechanism that allows easy access to all wiring on the rear of the panel without the removal of any cabinet shelves. Lowering or complete removal of the main panel can be accomplished without the use of hand tools.

c. The terminals and facilities shall be available as a minimum in the following configuration:

    1) Sixteen load switch sockets, six flash transfer relay sockets, one flasher socket, two main panel BIU racks with two BIUs, one 16 channel detector rack with one BIU, and one Type-16 MMU.

d. All load switch and flash transfer relay socket reference designators shall be silk-screen labeled on the front and rear of the main panel to match drawing designations. Socket pins shall be marked for reference on the rear of the panel.

e. A maximum of eight load switch sockets may be positioned horizontally or stacked in two rows on the main panel. Main panels requiring more than eight load switch sockets shall be mounted in two horizontal rows.

f. All load switches shall be supported by a bracket, extending at least half the length of the load switch.

g. Rack style mounting shall be provided to accommodate the required BIUs per the configuration listed above. A dual-row, 64-pin female DIN 41612 Type B connector shall be provided for each BIU rack position. Card guides shall be provided for both edges of the BIU. Terminal and facilities BIU mounting shall be an integral part of the main panel. Detector rack BIU mounting shall be an integral part of the detector rack.

h. All BIU rack connectors shall have pre-wired address pins corresponding to the requirements of the TS2 specification. The address pins shall control the BIU mode of operation. BIUs shall be capable of being interchanged with no additional programming.

i. The 16-load switch position main panel shall have all field wires contained on two rows of horizontally mounted terminal blocks. The upper row shall be wired for the pedestrian and overlap field terminations. The lower row shall be reserved for phase one through phase eight vehicle field terminations.

j. All field output circuits shall be terminated on a non-fused barrier type terminal block with a minimum rating of 10 amps. Each terminal block position shall have two No. 10/32 screw connectors and a removable shorting bar. Each field side terminal shall be equipped with an Ilsco Terminal Lug 4-14 AL9CU, No substitutes.

k. All field output terminal blocks shall utilize spade lugs to terminate pack panel wiring. All back panel wires meant for technician servicing and modifying shall be labeled per original manufacture termination location.

l. All field input/output (I/O) terminals shall be identified by permanent alphanumerical labels. All labels shall use standard nomenclature per the NEMA TS2 specification.

m. It shall be possible to flash either the yellow or red indication on any vehicle movement and to change from one color indication to the other by use of a screwdriver.

n. Field terminal blocks shall be wired to use four positions per vehicle or overlap phase (green, yellow, red, flash). It shall not be necessary to de-buss field terminal blocks for flash programming.

o. Field terminal blocks and the screwlugs used to connect the field wiring shall be provided a clear plastic protective cover mounted on plastic standoffs to allow quick removal and access while providing electrical shock protection while working in the cabinet.

p. The main panel shall contain at least one flasher socket (silk screen labeled) capable of operating a 15-amp, 2-pole, NEMA solid-state flasher. The flasher shall be supported by a bracket, extending at least half its length.

q. One RC network shall be wired in parallel with each group of three flash-transfer relays and any other relay coils.

r. All logic-level, NEMA-controller and Malfunction Management Unit input and output terminations on the main panel shall be permanently labeled. Cabinet prints shall identify the function of each terminal position.

s. At a minimum, three 20-position terminal blocks shall be provided at the top of the main panel to provide access to the controller unit's programmable and non-programmable I/O. Terminal blocks for DC signal interfacing shall have a number 6-32 x 7/32 inch screw as minimum.

t. All main panel wiring shall conform to the following wire size and color:

Green/Walk load switch output	- Brown wire - 14 gauge
Yellow load switch output	- Yellow wire - 14 gauge
Red/Don't Walk load switch output	- Red wire - 14 gauge
MMU (other than AC power)	- Violet wire - 22 gauge
Controller I/O	- Blue wire - 22 gauge
AC Line (power panel to main panel)	- Black wire - 8/10 gauge
AC Line (main panel)	- Black wire - 10 gauge
AC Neutral (power panel to main panel)	- White wire - 8/10 gauge
AC Neutral (main panel)	- White wire - 10 gauge
Earth ground (power panel)	- Green wire - 8 gauge
Logic ground	- Gray wire - 22 gauge
Flash programming	- Orange wire Flasher Terminal- Black wire red Or yellow field Terminal - 14 gauge

u. All wiring, 14 AWG and smaller, shall conform to MIL-W-16878/1, type B/N, 600V, 19-strand tinned copper. The wire shall have a minimum of 0.010 inches thick PVC insulation with clear nylon jacket and rated to 105 degrees Celsius. All 12 AWG and larger wire shall have UL listed THHN/THWN 90 degrees Celsius, 600V, 0.020 inches thick PVC insulation and clear nylon jacketed.

v. Connecting cables shall be sleeved in a braided nylon mesh or poly-jacketed. The use of exposed tie-wraps or interwoven cables are unacceptable.

w. All terminals and facilities configurations shall be provided with sufficient RS-485 Port 1 SDLC communication cables to allow for the intended operation of that cabinet. Each communication cable connector shall be a 15-pin metal shell D subminiature type. The cable shall be a shielded cable suitable for RS-485 communications. Cable used for SDLC cables shall be a Belden 8104 or approved equal.

x. All main panels shall be pre-wired for a Type-16 Malfunction Management Unit.

y. All wiring shall be neat in appearance. All cabinet wiring shall be continuous from its point of origin to its termination point. Butt type connections/splices are not acceptable.

z. All connecting cables and wire runs shall be secured by mechanical clamps. Stick-on type clamps are not acceptable.

aa. The grounding system in the cabinet shall be divided into three separate circuits (AC Neutral, Earth Ground, and Logic Ground). These ground circuits shall be separated, earth ground from the other two.

bb. The main panel shall incorporate a relay to remove +24 VDC from the common side of the load switches when the intersection is placed into mechanical flash. The relay shall have a momentary pushbutton to apply power to the load switch inputs for ease of troubleshooting.

cc. All pedestrian push button inputs from the field to the controller shall be opto-isolated through the BIU and operate at 12 VAC.

dd. All wire (size 16 AWG or smaller) at solder joints shall be hooked or looped around the eyelet or terminal block post prior to soldering to ensure circuit integrity. Lap joint soldering is not acceptable.

ee. An 80 position fuse block shall be wired to the field side of the Terminal and Facilities out puts. The fuse block shall accommodate Flashing Yellow Arrow Operations.

ff. An AAPS terminal block shall be installed and wired to accommodate AAPS systems.

B.4 Power Panel Design and Construction:

a. The power panel shall consist of a separate module, securely fastened to the right side wall of the cabinet. The power panel shall be wired to provide the necessary filtered power to the load switches, flasher(s), and power bus assembly. It shall be manufactured from 0.090-inch, 5052-H32 aluminum with a removable plastic front cover which shall be arc flash protection rated and comply with NFPA 70E and OSHA requirements.

b. The panel shall be of such design so as to allow a technician to access the main and auxiliary breakers without removing the front cover.

c. The power panel shall house the following components:

1) A minimum of a 40-amp main breaker for the 16- position cabinet. This breaker shall supply power to the controller, MMU, signals, cabinet power supply and auxiliary panels, and a 40-amp breaker to supply the flasher power. Breakers shall be at minimum, a thermal magnetic type, U.L. listed for HACR service, with a minimum of 10,000 amp interrupting capacity.

2) A minimum of a 15-amp auxiliary fuse. This fuse shall supply power to the fan, light and GFI utility outlet.

3) An EDCO model SHP-1250 or exact approved equivalent surge arrester.

4) A 50 amp, 125 VAC radio interference line filter.

5) A SPST-NO Crydom A4890 solid state relay shall be used for the signal buss relay.

6) A minimum of 2-12 position neutral bus bars capable of connecting three #12 wires per position. One on the left side and one on the right side of the cabinet.

7) A minimum of 2-12 position ground bus bars capable of connecting three #12 wires per position. One on the left side and one on the right side of the cabinet.

8) A NEMA type 5-15R GFI utility outlet.

9) A 4 position plug-in connector for wiring to the power bus assembly.

B.5 Power Bus Assembly:

a. The power bus assembly shall be manufactured from 0.090 inch, 5052-H32 aluminum. It shall provide filtered power for the controller, malfunction management unit, cabinet power supply, and all auxiliary equipment. It shall include the SDLC Bus connecting cables wired into a surface mounted compression terminal block.

b. The Power Bus Assembly shall house the following components:

1) Six (6) power connectors.

2) Two terminal strips to hardwire the power connections.

3) SDLC terminal block with pre-wired cables.

c. All cabinet equipment requiring filtered power to operate, shall be connected to the power bus assembly by a Burndy connector # SMS12PDH1 or exact equivalent, or hardwired directly to the supplied terminal blocks.

B.6 Auxiliary Cabinet Equipment:

a. The cabinet shall be provided with a thermostatically controlled (adjustable between 80-150 degrees Fahrenheit) ventilation fan in the top of the cabinet plenum. The fan plate shall be removable with the use of simple hand tools for serviceability. A minimum of one exhaust fan shall be provided. The fan shall be a ball bearing type fan and shall be capable of drawing a minimum of 100 cubic feet of air per minute. The Fan/Thermostat assembly shall be connected to the Power panel by means of a 4 position plug-in cable. Two thermostatically controlled heat lamps sockets shall be installed in the cabinet

b. At minimum, two light panels shall be mounted in the cabinet to sufficiently illuminate the field terminals. The light panels shall be wired to either a 15-amp ON/OFF toggle switch mounted on the power panel.

c. A resealable print pouch shall be mounted to the door of the cabinet. The pouch shall be of sufficient size to accommodate one complete set of cabinet prints.

d. A minimum of two sets of complete and accurate cabinet drawings shall be supplied with each cabinet.

e. A minimum of one set of manuals for the controller, Malfunction Management Unit and Autoscope cabinet equipment shall be supplied with each cabinet.

f. Set up each cabinet for video detection with quad outlets.

g. For the System with a master, install master modem outlets.

B.7 Vehicle Detection:

a. A minimum of one vehicle detector amplifier rack shall be provided in each cabinet.

b. Each detector rack shall support up to 16 channels of loop detection (either eight 2 channel detectors or four 4 channel detectors), two 2-channel preemption devices and one BIU.

c. Each cabinet shall contain detector interface panels for the purpose of connecting field loops and vehicle detector amplifiers. The panels shall be manufactured from FR4 G10 fiberglass, 0.062 inches thick, with a minimum of 2 oz. of copper for all traces and built to the IPC “Class II” Electronics standards

d. It shall not be required to use spade lugs for termination of loop and EVP field wire. The detector interface panel shall provide a barrier terminal strip to all for direct wire termination.

e. A 16-position interface panel shall be provided for a 16-channel rack cabinet. The interface panel shall be secured to a mounting plate and attached to the left side of the cabinet.

f. Each interface panel shall allow for the connection of sixteen independent field loops. A ground bus terminal shall be provided between each loop pair terminal to provide a termination for the loop lead-in cable ground wire.

g. Each interface panel shall provide a 10-position terminal block to terminate the field wires for up to two 2-channel preemption devices.

h. Lightning protection device mounting holes shall be provided to accommodate an Edco SRA-16C, or Edco SRA-6, or Edco LCA-6, or a varistor lightning protection device.

i. A cable consisting of 20 AWG twisted pair wires shall be provided to enable connection to and from the panel to a detector rack. The twisted pair wires shall be color coded red and white wire.

j. All termination points shall be identified by a unique number and silk screened on the panel.

k. Each detector rack shall accommodate rack mountable preemption devices such as EMTRAC or Opticom.

l. Each detector rack shall be powered by the cabinet power supply and be connected to the power bus assembly by means of Burndy connector # SMS12PDH1.

m. If loop detection is utilized at an intersection, each detector card rack shall be supplied with the required number of 2 channel detector cards to accommodate the loop detectors of the intersection plus two (2) spare 2 channel detector cards.

n. The card rack shall have provisions to attach a marking strip or other identification labels to identify detector modules and/or specific intersection loops.

B.8 Cabinet Test Switches and Police Panel:

a. A test switch panel shall be mounted on the inside of the main door. The test switch panel shall provide as a minimum the following:

    1) AUTO/FLASH SWITCH. When in the flash position, power shall be maintained to the controller and the intersection shall be placed in flash. The controller shall not be stop timed when in flash. If required by the plans and specifications, an optional RC network shall be provided to give the controller an external start pulse when switch is returned to the auto position. This will force the controller to initiate the start-up sequence when exiting flash.

    2) STOP TIME SWITCH. When applied, the controller shall be stop timed in the current interval.

    3) CONTROL EQUIPMENT POWER ON/OFF. This switch shall control the controller, MMU, and cabinet power supply AC power.

b. Momentary test push buttons for all vehicle and pedestrian inputs to the controller are not required. The TS2 controllers to be provided with the cabinet assemblies shall provide vehicular and pedestrian call inputs from its keyboard while in the standard status display.

c. The police door switch panel shall contain the following:

    1) SIGNALS ON/OFF SWITCH. In the OFF position, power shall be removed from signal heads in the intersection. The controller shall continue to operate. When in the OFF position, the MMU shall not conflict or require reset.

    2) AUTO/FLASH SWITCH. In the flash position, power shall not be removed from the controller and stop time shall be applied. If required by the plans and specifications, an optional RC network shall be provided to give the controller an external start pulse when switch is returned to the auto position. This will force the controller to initiate the start-up sequence when exiting flash.

d. All toggle type switches shall be heavy duty and rated 15 amps minimum. Single- or double-pole switches may be provided, as required.

e. Any exposed terminals or switch solder points shall be covered with a non-flexible shield to prevent accidental contact.

f. All switch functions must be permanently and clearly labeled.

g. All wire routed to the police door-in-door and test switch push button panel shall be adequately protected against damage from repetitive opening and closing of the main door.

h. All test switch panel wiring shall be connected to the main panel via a 36-pin Burndy connector #SMS36R1, or exact equivalent.

i. All wiring from the main panel to the test switch panel shall be connected to the switch panel via a 24-pin Burndy connector #SMS24R1 or exact equivalent.

B.9 Controller Interconnect/Communication Panel:

a. Plans shall indicate the type of interconnect to be used.

B.10 Auxiliary Devices:

a. Load Switches:

    1) Load switches shall be solid state and shall conform to the requirements of Section 6.2 of the NEMA TS2 Standard.

    2) Signal load switches shall have a minimum rating of 10 amperes at 120 VAC for an incandescent lamp load.

    3) The front of the load switch shall be provided with at least three indicators to show, at minimum, the input signal from the controller to the load switch.

    4) Load switches shall be dedicated per phase. The use of load switches for other partial phases is not acceptable.

    5) The full complement of load switches shall be supplied with each cabinet to allow for maximum phase utilization for which the cabinet is designed.

b. Flashers:

1) The flasher shall be solid state and shall conform to the requirements of section 6.3 of the NEMA TS2 Standard.

2) Flashing of field circuits for the purpose of intersection flash shall be accomplished by a separate flasher.

3) The flasher shall be rated at 15 amperes, double pole with a nominal flash rate of 60 FPM.

c. Flash Transfer Relays:

1) All flash transfer relays shall meet the requirements of Section 6.4 of the NEMA TS2 Standard.

2) The coil of the flash transfer relay must be de-energized for flash operation.

3) The full complement of relays shall be supplied with each cabinet to allow for maximum phase utilization for which the cabinet is designed.

d. Malfunction Management Units:

1) Each cabinet assembly shall be supplied with one Malfunction Management Unit (MMU) as defined by the requirements of Section 4 of the NEMA TS2 Standard.

2) Units shall be a Reno MMU2-1600GE with Ethernet capabilities.

e. Bus Interface Units:

1) All Bus Interface Units (BIUs) shall meet the requirements of Section 8 of the NEMA TS2 Standard.

2) The full complement of Econolite Control Products, Inc. Model 160-1003-502 Bus Interface Units shall be supplied with each cabinet to allow for maximum phase and function utilization for which the cabinet is designed.

3) Each Bus Interface Unit shall include power on, transmit and valid data indicators. All indicators shall be LEDs.

f. Cabinet Power Supply:

1) Each cabinet power supply shall meet the requirements of Section 5.3.5 of the NEMA TS2 Standard.

2) The cabinet power supply shall provide LED indicators for the line frequency, 12 VDC, 12 VAC, and 24 VDC outputs.

3) The cabinet power supply shall provide (on the front panel) jack plugs for access to the +24 VDC for test purposes.

4) One Econolite Control Products, Inc. Model 1084-003 or equivalent cabinet power supply shall be supplied with each cabinet assembly and shall be wired directly to the Power Bus Assembly via a Burndy 12-pos #SMS12PDH1 connector or exact equivalent.

g. Controller Unit:

1) Each controller unit shall be a NEW Econolite Cobalt controller with data key and Ethernet connection, or Engineer approved equal.

B.11 Manufacturing Registration, Testing and Warranty:

a. Testing:

1) Each controller and cabinet assembly shall be tested as a complete entity under signal load.

2) Each assembly shall be delivered with a signed document detailing the cabinet final tests performed.

3) Each cabinet shall be assembled and tested by the controller manufacturer or authorized local distributor to ensure proper component integration and operation.

b. Warranty:

1) Each controller and Malfunction Management Unit shall be warranted by the manufacturer against mechanical and electrical defects for a period of 2 years from date of shipment. The manufacturer's warranty shall be supplied in writing with each cabinet and controller. Second party extended warranties are not acceptable.

2) The warranty shall provide for full repair or replacement, as determined by the department, of the failed item or cabinet system. Vendor warranty service response times depend on whether or not the department has spare inventory of the failed item. In the event that there is an issue with either the cabinet itself, or a component for which the department does not maintain an inventory, response times after notification by the department shall be 4 hours to have qualified service personnel on site at the intersection.

3) Each cabinet assembly and all other components shall be warranted for a period of one year from date of shipment.

4) Any defects shall be corrected by the manufacturer or supplier at no cost to the owner.

C Construction

Perform work according to standard spec 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

Install the traffic signal cabinet on the concrete control cabinet base the same day it is delivered to the site location.

Touch-up and repair damage to black equipment with matching material. All new black equipment must be touched-up, repaired, and accepted by the Department.

Request a signal inspection of the completed signal installation to the engineer at least five working days prior to the time of the requested inspection. City personnel will perform the inspection.

D Measurement

The department will measure Signal Controller and Cabinet (Location) as each intersection with a fully functional traffic signal controller and cabinet system.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Signal Controller and Cabinet (USH 51 & Van Buren St)	EACH
SPV.0060.27	Signal Controller and Cabinet (USH 51 & Kings Lynn Rd)	EACH

Payment is full compensation for furnishing and installing the black, powder coated traffic signal cabinet and signal controller together with all required control units, conflict monitor, and required auxiliary equipment, all additional harnesses for preemption, switches for flashing operation, and fittings as are necessary to ensure that the cabinet and controller will perform the said functions.

67. Salvage and Reinstall Monotube Structure, Item SPV.0060.28.

A Description

This work consists of relocating a type 13 pole, 35-foot arm, and luminaires in the southeast quadrant of the USH 51 & Jackson Street intersection as shown in the plans and according to the requirements of standard spec 657 and 658, standard detail drawings, and as hereinafter provided.

B (Vacant)

C Construction

After coordination with the Southwest Region Electrical Unit, remove the existing type 13 pole, 35-foot arm, and luminaire from the existing concrete base and reinstall them on the new type 13 concrete base. Do not reuse old mounting hardware. Provide new hardware (pole to base and pole to arm). In addition, relocate the existing LED signal face to line up with the center of the left turn lane. Salvage the two programmable traffic signal heads and return to the Wisconsin DOT Southwest Region. Notify Graham

Heitz at (608) 246-5362 at least 3 working days before the removal of the programmable traffic signal heads to coordinate transport to the WisDOT Southwest Region Office.

D Measurement

The department will measure Salvage and Reinstall Monotube Structure as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.28	Salvage and Reinstall Monotube Structure	EACH

Payment is full compensation for all work under this item including relocating type 13 pole, 35-foot arm, luminaires, salvaging and transporting the programmable traffic signal heads. Payment includes additional hardware and other materials to complete the reinstallation of the monotube.

68. Remove, Reinstall, and Supplement RRFB Crossing System, Item SPV.0060.29.

A Description

This special provision describes salvaging and reinstalling an existing RRFB System according to standard spec 204, 651, and 655 and adding additional flashing and signing equipment. Work under this item also includes preserving components to be reinstalled and protecting from damage until reinstallation and acceptance.

B Materials

B.1 Salvaged Materials

Salvage the existing RRFB components (control enclosures, solar panels, push buttons, light indications, signs). Concrete base, pedestal base, and traffic signal standard, furnished and paid for separately.

B.2 Supplemental Materials

As part of the reinstalled RRFB system, the contractor shall furnish:

2 – Flashing indicator heads

6 – 30” x 30” W11-2 Pedestrian Crossing Signs

2 – 24” x 12” W16-7L Pedestrian Crossing Arrow Signs

2 – 24” x 12” W16-7R Pedestrian Crossing Arrow Signs

B.2.1 Signing

Signing shall meet the standards in standard spec 637 for Signs Type II Reflective F.

B.2.2 – Flashing indicators

(1) Each indication shall be a minimum size of approximately 7” wide x 3” high with 8 high power LEDs

(2) Two indications shall be installed on an assembly facing in the direction of approaching vehicular traffic. The two indications shall be aligned horizontally, with the longer dimension of the indication horizontal, and a minimum space between the two indications of approximately 7” measured from inside edge of one indication to inside edge of second indication.

(3) A 6 LED or approved equal indication shall be installed on an assembly facing in the direction of approaching pedestrian traffic to serve as a confirmation for the pedestrian that the system has been activated.

(4) The outside edges of the two indications, including any housing, shall not protrude beyond the outside edges of the integral signage of the assembly.

(5) The light intensity of the indications shall be certified to meet the minimum specifications of the Society of Automotive Engineers (SAE) standard J595 Class 1(Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005 and be available upon request.

(6) Each indication shall be located as noted on the plan sheet.

(7) All exposed hardware shall be anti-vandal.

(8) All individual components of the system shall be replaceable to allow for easy field repair and maintenance.

(9) To minimize excessive glare during nighttime conditions, an automatic signal dimming device should be used to reduce the brilliance of the RRFB indications during nighttime conditions

C Construction

Remove existing school crossing and arrow signs

The RRFB system consists of multiple assemblies to be constructed by the contractor as shown on the plans. Assemble RRFB with pedestrian activation per the manufacturer's recommendations. Mount the controller cabinet, signage, light bar, push buttons and signs to the traffic signal poles as shown on the plans and per the manufacturer's requirements. Mount the Pedestrian Indication LEDs to be visible to pedestrians in the crosswalk, and to flash concurrently with the vehicle indications to confirm that the RRFB is in operation.

Program the controller and make the RRFB system fully operational. The Engineer will provide the flash operation timings. Coordinate instruction of the programing and operation of the controller with the engineer. Provide a 7 working day notice to the engineer prior to the instruction.

D Measurement

The department will measure Remove, Reinstall, and Supplement RRFB Crossing System as each individual RRFB system, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.29	Remove, Reinstall, and Supplement RRFB Crossing System	EACH

Payment is full compensation for removing, salvaging, furnishing supplemental signing and flashing indicators, and reinstalling the RRFB systems.

69. Salvage and Reinstall Light Pole, Item SPV.0060.30.

A Description

This special provision describes removing, salvaging, and reinstalling existing light poles, according to the pertinent provisions of standard spec 204, 651, 652, 655, 657, 659, and as hereinafter provided. Specific removal items are noted in the plan.

B Materials (Vacant)

C Construction

Arrange for the de-energizing of the lighting with the local electrical utility after receiving approval from the engineer that the existing light pole can be removed.

Deenergize and disconnect the wiring splices in the base in compliance with the National Electric Code (NEC).

Notify Brett Hebert at (608) 877-8684 at least three working days prior to the deactivation of the lighting system. Salvage and remove the light poles as soon as possible following shut down of this equipment.

The department assumes that all equipment is in good condition and in working order prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged or non-working lighting equipment to the engineer. Any equipment not identified as damaged or not working, prior to removal, will be replaced by the contractor at no cost to the department.

Salvage the equipment necessary for reinstallation as indicated in the plans. If required, storage of the salvaged light pole prior to reinstallation is the responsibility of the contractor and is incidental to this item. Any salvaged equipment damaged during transportation or storage shall be replaced at the contractor's expense.

Carefully disconnect and remove the light pole from its concrete base. Ensure that all access hand hole doors and all associated hardware remain intact. Ensure wiring up to the luminaire remains intact.

Remove the underground wiring/cabling as indicated on the plans. Dispose of the cable and wires off the state right-of-way.

Reinstall the above-ground equipment as indicated on the plans and according to standard spec 651.3, 652.3, 655.3, 657.3, and 659.3.

D Measurement

The department will measure Salvage and Reinstall Light Pole as each individual light pole, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.30	Salvage and Reinstall Light Pole	EACH

Payment is full compensation for removing, handling, storing, reinstalling light pole and luminaire(s); for furnishing and installing materials including hardware and connectors; and for performing all mounting, leveling, restoration, and proper disposal of surplus materials.

70. Optical Signal Preempt – USH 51 & Van Buren St, Item SPV.0060.31; Optical Signal Preempt – USH 51 & Kings Lynn Rd, Item SPV.0060.32.

A Description

This special provision describes providing optical signal preempt equipment at the intersections of USH 51 & Van Buren St and the intersection of USH 51 & Kings Lynn Rd.

B Materials

Provide the following material:

1. Two-channel discriminator.
2. Optical detectors, four total.
3. Card rack.
4. Detector cable as necessary.
5. Cables and auxiliary equipment as necessary for a complete operating system.

Provide all equipment from the same manufacturer and fully compatible. The discriminator shall detect and prioritize Tomar and Opticom brand emitters. The discriminator shall be capable of locking out non-coded emitters. The acceptability of equipment rests solely with the City of Stoughton Director of Public Works Brett Hebert.

C Construction

Install detectors on the top horizontal member of monotube arms, between the first and second traffic signal head, and as otherwise shown on the plan or directed by the engineer.

The detectors will generally be on the far side of the intersection, and aimed at approaching traffic, as further directed by plans and engineer. Install detector cable from the detector to the control cabinet, using the shortest path.

All installation methods to be consistent with the manufacturer's instructions. Card rack and discriminator installation, as well as cabinet connections, will be made by the contractor.

D Measurement

The department will measure Optical Signal Preempt – (Location) as each individual optical signal preempt 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.0060.31	Optical Signal Preempt – USH 51 & Van Buren St	EACH
SPV.0060.32	Optical Signal Preempt – USH 51 & Kings Lynn Rd	EACH

Payment is full compensation providing detectors and cable; for furnishing and installing discriminators, card racks, cables and miscellaneous materials to create operating optical signal preemption systems.

71. Temporary Drain Slotted Vane, Item SPV.0060.33.

A Description

This special provision describes providing and removing temporary slotted vane drain as the plans show conforming to standard spec 611 as modified in this special provision.

B (Vacant)

C Construction

Before encasing the pipe in concrete, cover the upper end of the slotted drain as the plans show, or as approved by the engineer.

Before construction operations adjacent to the slotted area of the slotted vane drain pipe, cover the slots on the top of the drain. Remove any material entering the pipe at the contractor's expense.

Exercise care to avoid damage to the slotted vane drainpipe. If any section of pipe is damaged or is unsatisfactory as determined by the engineer, replace the drainpipe at contractor's expense.

Maintain temporary slotted vane drain in place until no longer needed. Unless the engineer directs otherwise, completely remove and dispose of as specified in 203.3.5. Contractor-furnished materials remain the contractor's property upon removal.

D Measurement

The department will measure Temporary Drain Slotted Vane as each individual drain, 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	Temporary Drain Slotted Vane	EACH

Payment is full compensation for furnishing all materials; hauling and placing the pipe; making connections to existing inlets; furnishing concrete masonry, end plug or cap; for maintaining; removing when no longer needed; and cleaning out and restoring site of work.

72. Temporary Connection to Existing Storm Sewer, Item SPV.0060.34

A Description

This special provision describes temporarily connecting existing or temporary storm sewer laterals to new storm sewer structures or pipes in order to maintain storm water flow during construction.

B Materials

Furnish materials that are in accordance to section 608 of the standard specifications or as approved by the engineer.

C Construction

Connect the existing or temporary pipes to the new structures or pipes with an appropriate coupling, concrete collar or by means approved by the engineer. Any additional materials required to connect the storm sewer laterals are considered incidental to this bid item.

D Measurement

The department will measure Temporary Connection to Existing Storm Sewer by each connection, 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.0060.34	Temporary Connection to Existing Storm Sewer	EACH

Payment is full compensation for installation, removal, repair of the new structure or pipe after removal of the temporary connection, and for furnishing and installing all materials, couplings, and concrete collars.

73. Temporary Asphaltic Flumes, Item SPV.0060.35

A Description

This special provision describes constructing temporary asphaltic flumes as the plans show in order to maintain storm water flow during construction.

B Materials

Furnish material that is in accordance to section 465.2 (2) of the standard specifications.

C Construction

Construct flumes in accordance to section 465.3.1 of the standard specifications and as the plans show. Construct flumes in such a manner to ensure storm water drainage away from the travel lanes in use during their intended lifespan and towards the appropriate ditches, swales, or drainage structures.

D Measurement

The department will measure Temporary Asphaltic Flumes by each flume, 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.0060.35	Temporary Asphaltic Flumes	EACH

Payment is full compensation for installation and removal of the flume, and any repair of the new pavement and curb and gutter after removal of the temporary flume.

74. Temporary Mailbox Station, Item SPV.0060.36.

A Description

This special provision describes furnishing and installing temporary mailbox stations at locations determined by the City of Stoughton and the United States Postal Service (USPS).

B Materials

Furnish temporary mailboxes according to local USPS requirements.

C Construction

Prior to the start of construction, coordinate with the local Postmaster and the City of Stoughton for temporary mailbox requirements (size, height, location(s), etc.).

Provide a temporary mailbox station that contains no less than 20 individual mailboxes and install at a location determined by the City of Stoughton and the USPS. Install the mailbox station at the proper height and distance from curb or edge of roadway as required by USPS. Provide notice to affected property owners and the USPS no less than one week prior to implementing the temporary mailbox station and also project completion and removal of the temporary mailbox station.

D Measurement

The department will measure Temporary Mailbox Stations as each individual temporary mailbox station, 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.0060.36	Temporary Mailbox Station	EACH

Payment is full compensation for coordinating with City of Stoughton and USPS; providing all materials; for installing; for excavation, backfilling, and properly disposing of surplus materials; for removing the temporary mailbox station upon project completion; for cleaning out and restoring the work site.

75. Manhole Weir Wall Structure ID 29, Item SPV.0060.37; Manhole Weir Wall Structure ID 30, Item SPV.0060.38; Manhole Weir Wall Structure ID 34, Item SPV.0060.39; Manhole Weir Wall Structure ID 99, Item SPV.0060.40; Manhole Weir Wall Structure ID 131A, Item SPV.0060.41; Manhole Weir Wall Structure ID 141A, Item SPV.0060.42.

A Description

Perform work according to the applicable provisions of standard specification 501, 502, and 611, and as detailed in the plans.

B Materials

Furnish adhesive from the department's approved products list.

C Construction

Install adhesive anchors according to standard specification 502.2.12.

D Measurement

The department will measure Manhole Weir Wall (Structure ID) as each individual manhole weir wall, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.37	Manhole Weir Wall Structure ID 29	EACH
SPV.0060.38	Manhole Weir Wall Structure ID 30	EACH
SPV.0060.39	Manhole Weir Wall Structure ID 34	EACH
SPV.0060.40	Manhole Weir Wall Structure ID 99	EACH
SPV.0060.41	Manhole Weir Wall Structure ID 131A	EACH
SPV.0060.42	Manhole Weir Wall Structure ID 141A	EACH

Payment is full compensation for providing all materials and performing the work, including all concrete, steel reinforcement, and other fittings; for drilling holes into the concrete manhole structures and for adhesive anchors; for disposing of surplus material and for cleaning out the concrete manhole structure.

76. Audible-Tactile Pedestrian Push Button System – Van Buren St, Item SPV.0060.43; Audible-Tactile Pedestrian Push Button System – Kings Lynn Rd, Item SPV.0060.44.

A Description

This special provision describes Furnish and install an Audible-Tactile Pedestrian Push Button Systems (APS) at the intersections of USH 51 & Van Buren St and at the intersection of USH 51 & Kings Lynn Rd. The systems shall consist of all electronic control equipment, mounting hardware, push buttons and signs, which are designed to provide both a push button with a raised vibrating tactile arrow on the button, along with a variety of audible sounds for different pedestrian signal functions.

B Materials

Ensure APS complies with US Access Board's "Draft Guidelines for Accessible Public Rights of Way (PROWAG) Section R306. In addition, ensure that the APS complies with and provides operation consistent with requirements of Sections 4E.09 through 4E.13 of the 2009 Edition of the Federal Highway Administration publication, Manual on Uniform Traffic Control Devices.

a. The System shall meet the functionality requirements of MUTCD 2009 – 4E.

b. The System shall meet NEMA TS 2 Section 2.1 Temperature & Humidity requirements.

c. The System shall meet NEMA TS 2 Section 2.1 Transient Voltage Protection requirements.

d. The System shall meet NEMA TS 2 Section 2.1 Mechanical Shock and Vibration requirements.

e. The System shall meet IEC 61000-4-4, IEC 61000-4-5 Transient Suppression requirements.

f. The System shall meet FCC Title 47, Part 15, Class A Electronic Noise requirements.

g. The Push Button Station (PBS) Enclosure shall meet NEMA 250 – Type 4X Enclosure requirements.

h. The Central Control Unit (CCU) & Ped Station Monitor (PSM) Enclosures shall meet NEMA 250 – Type 1 requirements.

i. The System shall meet NEMA TS 4 – Electrical Reliability requirements (applicable portions of Section 8).

j. The firmware and voice messages shall be upgradeable via a PC standard USB port at the PBS. There shall be no requirement for the IC chips or module hardware to be removed or exchanged in order to complete a firmware update.

k. Use R10-3e Signs – Hi Retroreflective (9"x15") sign in compliance with 2009 Edition of the Federal Highway Administration publication of the MUTCD

B Materials

Supply an APS (pushbutton station) that includes a pedestrian sign, a pushbutton, vibrotactile arrow, an ambient noise sensing microphone, and an audible speaker contained in one unit and with the following features:

a. All audible sounds shall emanate from the PBS.

b. Pushbutton locator tone with duration of 0.15 seconds or less, repeating at 1-second intervals. The pushbutton locator tones must deactivate when the traffic control signal is operating in a flashing mode. The locator tones must be intensity responsive to ambient sound and be audible (a maximum of 5 dBA louder than ambient sound) up to 6 to12 feet from the pushbutton or to the building line whichever is less.

c. Optional Speech walk message for the WALKING PERSON (symbolizing WALK) indication.

d. Optional Speech pushbutton information message.

e. Audible tone walk indications – consisting of ticks repeating at 8 to 10 times per second at multiple frequencies with a dominant component at 880 Hz ± 20%. It must provide an audible walk indication during the walk interval only.

f. The System shall provide two language capabilities, selectable by user (as a custom feature).

g. The System shall provide Emergency preemption message in conjunction with a preemption system (selectable feature).

h. Locate tone and "Walk", "Pedestrian Clearance" audible feature must have independent settable minimum and maximum volume limits.

i. The System shall be able to be set to vibrate a tactile arrow button during the WALK interval following a button push and/or every time the walk comes up.

j. The System shall have the field-selectable function known as "Locating Tone". This means that during the FLASHING DON'T WALK and the DON'T WALK intervals, the system shall provide a locating tone that emanates from the Pedestrian Push Button Station. The system shall provide at least three different sounds to choose from.

k. The System shall have the field selectable function known as “Extended Push Activation”. This means that the audible WALK message will only be activated and sound during the WALK interval if the button is depressed for a field selectable minimum period of time (from 0 to 6 seconds). Also, for the following walk phase, the volumes have a separately settable minimum and maximum volume level.

l. The System shall have the field selectable function known as “Informational Message”. This means that a custom message giving the location of the street to cross and the intersection (or other information) will be vocalized only when the button is depressed for a minimum field selectable time.

m. The System shall provide a “Wait” message that plays once the button is activated until the walk cycle goes into effect. This message must have the field selectable option of OFF or playing every 4, 6, 8 or 10 seconds.

n. The System shall have standard “Travel Direction” options that can be selected at the time of installation.

o. The System shall have at least five field selectable walk sound options including a cuckoo, a chirp, a rapid tick or custom voice message.

p. The System shall provide 3 Ped-clearance sound choices including audible countdown (field selectable). The audible countdown shall represent the time remaining during the pedestrian clearance interval. Timing is automatically adjusted to CLEARANCE INTERVAL timing.

q. All sounds for all PBS’s must be synchronized.

r. The system shall have an ambient sensing microphone located in the pedestrian station in a non-visible, environmentally protected housing.

s. Automatic volume adjustment in response to ambient traffic sound level provided up to a maximum volume of 100 dBA.

t. The pushbutton must be ADA compliant and activate both the walk interval and accessible pedestrian signal.

u. Actuation indicator-tone and light.

v. Pushbutton station and Central Control Unit shall be rated for the following temperature range: -34C to +74C (-29F to +165F).

B.3 Material Specification

B.3.1 General Materials

Vibrating tactile arrow with high visual contrast, located on the actual push button, not separate on the push button unit.

PUSH BUTTON: ADA compliant with raised arrow on the button plunger. The arrow on the PBS shall be able to be changed to one of four directions.

PUSH BUTTON: Uses Piezo switch technology rated to greater than 20 million operations.

CONFLICT WALK MONITOR: Circuitry shall have a separate microcontroller that independently monitors the main microcontroller outputs and “Walk Mode” for conflict condition, the PBS is reset in case of a conflict detection.

B.3.2 Controller

Supply a central control unit (CCU) for the pushbutton stations that resides in the Traffic Signal Controller Cabinet.

a. Provide a CCU capable of controlling up to 4 pedestrian phases and 16 Pushbutton stations.

b. Ensure that all inputs and outputs on the CCU have Transient Voltage Protection.

c. Shall be provided with an interface connection board.

d. Shall have Ethernet access to PBS’s through the CCU to be able to change the settings of PBS as well as monitor the self-test Events of the PBS’s and report back to the Central Control Station.

e. Shall have internal memory to store a few hundred events with adate-time stamp for each event.

f. Shall have an internal real-time clock capable of updating and synchronizing its time with an NTP server.

g. Shall provide user settable information to the user including location, contact information and system name via SNMP protocol.

h. Shall have the ability to send system Trap messages for any event logged in the system health log to up to three separate IP addresses using SNMP protocol.

i. Shall provide a user settable calendar function allowing four separate configuration profiles to be configured to become active at different timesof the day on a daily, weekly, or holiday basis.

B.3 Warranty

The contractor shall certify that the equipment meets the required specification and shall supply a complete catalog description.

Turn over to the City of Sun Prairie warranties and guarantees that are offered by the manufacturer as a customary trade practice. Name the City of Sun Prairie as the obligee on all manufacturers' warranties and guarantees. The system shall be supported by a minimum three-year warranty.

C Construction

Assemble Audible-Tactile Pedestrian Push Button System (APS) per the manufacturer's recommendations.

D Measurement

The department will measure Audible-Tactile Pedestrian Push Button System by each intersection, 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.0060.43	Audible-Tactile Pedestrian Push Button System – Van Buren St	EACH
SPV.0060.44	Audible-Tactile Pedestrian Push Button System – Kings Lynn Rd	EACH

Payment is full compensation for furnishing and installing the (APS) including all necessary mounting hardware and appurtenances.

77. Salvage Transformer Bases Breakaway 11 ½-Inch Bolt Circle, Item SPV.0060.45

A Description

This work consists of removing existing traffic signal transformer bases and storing them in a safe location on the project for pick up by SW Region Electrical staff.

B (Vacant)

C Construction

Coordinate the de-energizing of the existing traffic signals with the Project Engineer and after temporary signals are operational.

Notify the department's Traffic Engineering personnel at (608) 246-5362 at least (3) working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of the installation.

Coordinate and perform a field review of existing transformer bases with the SW Region Electrician for condition of equipment prior to removal. Notify the department of any damaged equipment. Separate the transformer base from the concrete base foundation and pole. Dispose of the excess signal cable.

Store all removed materials in a safe and secure location on the project, and as designated by the Project Engineer. Protect from theft and damage. Properly dispose offsite all materials not to be reinstalled on this project.

D Measurement

The department will measure Salvage Transformer Bases Breakaway 11 ½-Inch Bolt Circle as each individual unit acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.45	Salvage Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH

Payment is full compensation for removing, disassembling traffic signals, disposing of scrap material, safe storage of materials to be salvaged, and for protecting materials from theft and damage.

78. Apron Endwalls for Culvert Pipe Temporary 12-Inch, Item SPV.0060.46; Apron Endwalls for Culvert Pipe Temporary 18-Inch, Item SPV.0060.47; Apron Endwalls for Culvert Pipe Temporary 21-Inch, Item SPV.0060.48.

A Description

This special provision describes furnishing, installing, and removing temporary apron endwalls as shown on the plans and as hereinafter provided.

B Materials

Furnish new or salvaged materials conforming to spec 520.2.

C Construction

Construct apron endwalls as specified in standard spec 520.3.

Remove apron endwalls as specified in standard spec 204.

D Measurement

The department will measure Apron Endwalls for Culvert Pipe Temporary as each individual endwall, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.46	Apron Endwalls for Culvert Pipe Temporary 12-Inch	EACH
SPV.0060.47	Apron Endwalls for Culvert Pipe Temporary 18-Inch	EACH
SPV.0060.48	Apron Endwalls for Culvert Pipe Temporary 21-Inch	EACH

Payment is full compensation for furnishing, installing, and removing all materials when the apron endwall is no longer needed.

79. Habitat Log, Item SPV.0060.49.

A Description

This special provision describes placing logs within a stream embankment with instream stabilizing anchor stones, as shown on the plan.

B Materials

Provide logs of the diameters and lengths shown on the plans from trees previously cut and left within project limits. Provide rocks conforming to standard spec 606.2.1 requirements for Riprap Heavy. Substituting waste concrete slabs for rocks is not allowed. Rocks placed to stabilize the Habitat Log are considered part of the Habitat Log assembly and will not be measured separately.

C Construction

Excavate area to bury a portion of the log within the stream embankment. Place the log at an angle upstream, and place rocks as described above to stabilize the log within the stream, as shown in the plans. Backfill excavated area to the finished stream embankment dimensions using native material or as directed by the engineer.

D Measurement

The department will measure Habitat Log as each individual habitat log, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.49	Habitat Log	EACH

Payment is full compensation for excavation and shaping of area, providing and placing habitat log, providing and placing stabilization rocks, backfilling, shaping, and disposing of excess material. Rocks placed to stabilize the Habitat Log are considered part of the Habitat Log assembly and will not be paid for separately.

80. Storm Sewer Tap, Item SPV.0060.50.

A Description

This special provision describes tapping various sized storm sewer pipes into existing structures, including manholes or inlets, or other pipes at locations shown on the plans.

Perform the work according to the applicable provisions of sections 607 and 611 of the standard specifications, and as hereinafter provided.

B (Vacant)

C Construction

Tap into the existing structure to allow the pipe to be flush with the interior wall of the existing pipe or structure.

All necessary temporary shoring needed for construction of this item will not be paid for separately and will be included in this item of work.

D Measurement

The department will measure Storm Sewer Tap as each individual storm sewer tap, 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.0060.50	Storm Sewer Tap	EACH

Payment is full compensation for providing all materials, including saw cuts; for excavating; for removing concrete; for providing and removing sheeting and shoring; making and sealing connections to new or existing facilities; and for cleaning out existing structures and adjacent pipe sections.

81. Removing Lighting System Charles Lane Pedestrian Underpass, Item SPV.0060.51.

A Description

This special provision describes removing the lighting system at the Charles Lane pedestrian underpass in accordance to the pertinent provisions of section 204 of the standard specifications, as the plans show, and as hereinafter provided.

B (Vacant)

C Construction

No removal work will be permitted without approval from the Engineer.

Arrange for the de-energizing of the lighting with the local electrical utility after receiving approval from the engineer that the existing lighting can be removed.

Remove lighting luminaires, poles, arms, attached conduits, wires, electrical control panel and associated hardware and appurtenances at locations shown in the plan and as directed by the engineer. Removed materials shall become the property of the contractor and shall be disposed of off the project site in accordance with pertinent requirements of section 203.3.4 of the standard specifications. Lamps which

are considered a hazardout material, become property of the contractor and shall be disposed of in an environmentally sound manner.

All embedded conduits, junction boxes and hardware are not included in this bid item.

D Measurement

The department will measure Removing Lighting System Charles Lane Pedestrian Underpass by each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.51	Removing Lighting System Charles Lane Pedestrian Underpass	EACH

Payment is full compensation for removing and disposing of luminaires, poles, arms, attached conduits, electrical control panel and hardware.

SER-204.19 (20170516)

82. Settlement Gauges Special, Item SPV.0060.52.

A Description

A.1 General

This special provision describes furnishing and installation of settlement gauges as well as monitoring of settlement during construction of embankments. The purpose of the geotechnical instrumentation is to monitor ground movements after the placement of embankment fill for determining amount of settlement having taken place prior to next phase of fill placement.

Install the settlement gauges and collect the required settlement monitoring data as specified herein. The monitoring program required by this article does not relieve the contractor of responsibility for providing additional gauges or instrumentation and monitoring thereof, if, in the contractor’s opinion, such additional gauges or instrumentation and monitoring are necessary to accomplish the work.

Instrumentation installed under this contract shall remain fully operational after all appreciable settlement ceases as determined by the engineer and notification of acceptance by the engineer.

This article covers the work necessary to furnish and install geotechnical settlement gauges, maintaining installed gauges, taking initial and subsequent readings, and abandonment of the instruments.

A.2 Submittals

A.2.1 Prior to Installation

Submit the following specific information for information only, at least 30 calendar days prior to the start of settlement gauge installation:

Submit qualifications and experience of instrumentation specialists and personnel.

Instrumentation shop drawings detailing locations, depths on general information shown on the plans, type, details, and other pertinent information showing the installation details for each type of instrumentation required.

Description of methods for installing and protecting settlement gauges.

Schedule of instrument installation related to significant activities or milestones in the overall project.

Following installation of the settlement gauges and prior to the start of embankment construction, submit as-built shop drawings showing the exact installed location, the instrument identification number, the installation date and time, the plate and extension rod tip elevation and instrument length, and installed location of control points and benchmarks associated with surveys for monitoring settlement gauges. Include details of installed gauges, accessories, and protective measures including all dimensions and materials used.

Manufacturer’s literature describing installation, operation, and maintenance procedures for all gauges, materials, readout units, and accessories.

Installation logs for gauge installations prepared by the instrumentation specialist.

Additional geotechnical instrumentation installed at contractor's discretion will not be paid for separately.

A.2.2 After Installation

Submit the following specific information, for evaluation and acceptance by engineer:

All settlement gauge monitoring data.

Submit documentation of gauge abandonment.

A.3 Locations

Install the settlement gauges at the base of the embankment, prior to the start of fill placement, at locations identified on the plans.

A.4 Quality Assurance

Notify the engineer at least 24 hours prior to all instrumentation installation operations so that the engineer may monitor the installation work. Notify the engineer when initial readings will be made, and the engineer may elect to participate or observe in taking initial readings.

Each settlement gauge shall be the product of an acceptable manufacturer currently engaging in manufacturing and installing settlement gauges as specified herein.

A.4.1 Personnel Qualification

Qualified technicians with a minimum of 2 years of experience in the installations of settlement gauges similar to those specified herein.

A licensed surveyor registered in the State of Wisconsin and have a minimum of 2 years of experience in the installation of geotechnical instrumentation similar to those specified herein.

A.4.2 Control Points

Reference surveys for monitoring geotechnical gauges to the same control points and benchmarks established for setting out the work. Control points shall be tied to benchmarks and other monuments outside of the zone of ground movements that might result from underground excavations or embankment placement.

A.4.3 Tolerances

Install settlement gauges within 2 feet of the horizontal locations and 1 foot of the vertical locations as indicated in the plans, accepted shop drawings, or at the direction of the engineer.

Should actual field conditions prohibit installation at the locations and elevations indicated on the plans, obtain prior acceptance from the engineer for new instrument locations and elevations.

The horizontal and vertical tolerance for equipment for measuring settlement gauges is 1/8 inch or less.

A.4.4 Project Conditions

Provide the engineer and the Department access to the instruments at all times.

Protect all gauges from accidental damage.

A.4.5 Monitoring Settlement Gauges

Perform monitoring of settlement gauges, including initial survey (horizontal and vertical) of the settlement plate and subsequent survey of riser cap as fill embankment is placed, by a licensed surveyor. After initial readings are approved by the engineer, establish the baseline reading using an average from the initial readings.

Monitor settlement gauges as follows:

Initial survey reading of the plate at 4 corners, top of riser cap, and adjacent ground surface. Subsequent survey of riser cap and adjacent ground surface.

Monitor 2 times per week, separated by a minimum of 3 calendar days between readings, during the applicable early fill placement. Additionally, monitor after installing each new riser section.

Monitor once per week for a minimum of four weeks after early fill placement is complete.

Once approved by the engineer, decrease the monitoring frequency from once per week to once per month thereafter.

Summarize monitoring data in Excel format and make the data available to the engineer throughout the monitoring period.

A.4.6 Acceptance

The engineer will evaluate the submittals. Within 7 calendar days after receipt of each submittal, the engineer will notify the contractor of submittal acceptance, or if additional information and/or changes are required. Resubmit the submittal with the required information and/or changes. The engineer will notify the contractor of resubmittal acceptance within 7 calendar days after its receipt.

After the submittal acceptance by the engineer, no changes to the submittal can be made without written consent of the engineer.

B Materials

B.1 Settlement Plates

A 1/2-inch thick steel plate, 24 inches square in size, placed upon a minimum of 1-inch thick mortar leveling course, and with a 1 1/2-inch steel riser pipe that is welded in position perpendicular to the plate at its center.

B.2 Risers

Sections of 1 1/2-inch diameter standard threaded galvanized steel riser pipe welded to the base plate and extended progressively upward at a vertical plumbness as embankment fill is placed and compacted. A 1 1/2-inch standard galvanized steel cap shall be attached to the threaded inner riser plate as a survey reference member, and progressively removed and extended upward as each new section of riser pipe and external sleeve are added due to fill.

B.2 Isolation Casing

Sections of 3-inch diameter standard threaded steel pipe or threaded PVC pipe sleeve initially placed with a 2-foot separation from the base plate and then extended progressively upward encompassing the 1 1/2-inch steel pipe with the internal annulus filled with grease to promote free sliding between sleeve and internal pipe. This sleeve is intended to be continuous to prevent embankment soils from contacting the internal riser pipe over the length of sleeve to the surface as progressive lifts of fill are placed.

C Construction

Install the settlement gauges at locations identified in the plans.

C.1 Installation and Protection

Place the bottom of the plate level on the mortar pad and install the riser pipe vertical. Determine the elevation of the plate, and accurately measure and record the lengths and elevations of any added riser pipe(s).

Position and weld the initial 1 1/2-inch diameter threaded galvanized steel riser pipe perpendicular to the steel settlement plate with a fillet weld. Place end cap at the top of the riser pipe to serve as a survey reference point.

Place embankment fills as indicated to the elevations identified and shown in the plans/cross sections.

As soon as embankment soils achieve 2 feet of cover over the steel settlement plate, position a 3-inch diameter sleeve loosely around the smaller diameter riser pipe to isolate and protect the inner pipe for subsequent readings. Fill the inner annulus between the steel pipe and outer sleeve with sufficient lubricant grease to prevent rust from occurring and resulting in binding of the inner pipe to the outer sleeve.

Progressively add both inner riser pipe and outer sleeve pipe in section increments of 5 feet (or other calibrated and measured increments) as embankment fill is continued to be placed, while always transferring the end cap to the newest riser pipe top, and always obtaining new elevation readings at each time of extension addition. When the embankment reaches a level of approximately 12 inches below the top of the riser, notify the engineer; the engineer may direct that an additional section of riser and cover be installed.

Do not place embankment fill around settlement gauges until the elevation of the top of the new riser section has been determined by the contractor’s surveyor.

Compact the embankment material in the vicinity of the riser pipe to specification requirements, taking precautions to keep alignment of the riser and the cover pipes vertical at all times.

Take all necessary precautions to ensure that the settlement gauges are not damaged, displaced, or misaligned. If a gauge is damaged, immediately repair or replace the gauge at the contractor's expense.

All settlement gauges installed under this contract will be maintained, protected, read, repaired, and replaced (if needed) or as directed by the engineer.

C.2 Abandonment

Abandon settlement gauges after evaluation of settlement data notification of acceptance by the engineer.

Abandonment of settlement gauges includes removal of the top section of riser and isolation casing, and backfilling with granular material as directed by the engineer.

D Measurement

The department will measure Settlement Gauges Special as each individual settlement gauge special, 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.0060.52	Settlement Gauges Special	EACH

Payment is full compensation for furnishing and placing settlement gauges; extending gauges as embankment placement progresses; protecting the gauges; repairing or replacing gauges; and monitoring.

83. Temporary Stream Diversion Culvert B-13-922, Item SPV.0060.53

A Description

This special provision describes providing for and developing an approved plan for the flow of the unnamed tributary under USH 51 during the construction of Structure B-13-922 as hereinafter described.

B Materials

Follow the applicable sections of the standard specifications for all materials utilized under this item, as directed by the engineer. Provide evidence that items meet specifications and/or certifications prior to use of such items if requested by the engineer

C Construction

Furnish the engineer with a staged plan indicating an acceptable method to divert flow and maintain continuous drainage at the worksite throughout construction in and next to Drainage Way. Submit this plan as part of the Erosion Control Implementation Plan (ECIP) and meet the requirements of standard spec 107.20. Conform to the pertinent requirements of standard spec 204, 205, and 520.

Storage of materials or equipment on public property, outside of the normal roadway limits STH 51, in the vicinity of an unnamed tributary is not permitted.

1) Alterations to the suggested methodology of water diversion as noted below may be acceptable. Such alteration shall be clearly spelled out in the ECIP for approval by WisDOT and the Wisconsin Department of Natural Resources prior to construction.

2) Method: Divert the existing flow through the southern culvert pipe using barriers made of nonerodable materials, such as rock bags and polyethylene sheets, and a channel comprised of plastic and a bottom with 6-inch depth of coarse aggregate #2 stone. Details of the temporary channel and the non-erodible barrier system shall be detailed in the contractor's ECIP for approval by the engineer.

3) Remove existing water and material inside or near the existing northern culvert pipe before constructing the new northern horizontal elliptical culvert pipe, endwall, and apron. Remove the existing northern metal culvert pipe and headwall. Construct the new northern horizontal elliptical culvert pipe and apron.

4) Upon completion of the northern horizontal elliptical culvert pipe and apron, divert Drainage Way back into the constructed northern horizontal elliptical culvert pipe using barriers made of

nonerodable materials, such as rock bags and polyethylene sheets, and a channel comprised of plastic and a bottom with 6-inch depth of coarse aggregate #2 stone. Details of the temporary channel and the non-erodible barrier system shall be detailed in the contractor's ECIP for approval by the engineer.

5) Remove existing water and material inside or near the existing southern culvert pipe before constructing the new southern horizontal elliptical culvert pipe. Remove the existing southern metal culvert pipe and headwall. Construct the southern horizontal elliptical culvert pipe and apron.

6) Remove the temporary channel, culvert pipe, or temporary barriers after flow through the new horizontal elliptical pipe culvert structure is established. Restore the area outside of the proposed roadbed and slopes to natural surrounding conditions and elevations.

7) Immediately after the temporary diversion of waterways, engineer will contact the DNR to inspect the site.

D Measurement

The department will measure Temporary Stream Diversion (Structure Number) by each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.53	Temporary Stream Diversion B-13-922	EACH

Payment is full compensation for developing a diversion plan, furnishing, installing, removing, and disposing of all materials used to divert flow, maintaining such materials during use, all excavation and backfill required, dewatering, and for removals and restoration of the area to original conditions unless shown otherwise in the project plans.

84. Field Office Special, Item SPV.0060.54.

A Description

This special provision describes furnishing, equipping, and maintaining field office facilities.

B Materials

If providing an existing office building, or an existing building converted to office-type use, obtain engineer approval beforehand. Ensure that the building meets all applicable health, fire, and building codes and standards. Provide first aid kits, fire extinguishers, and all other supplies required to meet all applicable health, fire, and building codes and standards. Locate the field office within 2 miles of the project limits, or as approved by the engineer.

Provide; maintain in clean good working condition; and stock lavatory with sanitary supplies, including a sufficient supply of soap; hand sanitizer; toilet paper; and paper towels for the duration of the contract. The on-site sanitary facilities must meet Federal, State, and local health department requirements at all times. Equip these facilities with suitable natural and artificial lighting. Also provide adequate heating and air conditioning equipment and fuel necessary to maintain a temperature range from 68 degrees F to 80 degrees F during the hours occupied.

Equip:

- Doors and windows with locks.
- Exterior doors with dead bolt locks.
- Windows with exterior screens to allow adequate ventilation.

Furnish a facility with approximately 1,000 square feet of interior useable floor space including a meeting room capable of accommodating regularly scheduled meetings of 10 people, a 4' x 8' white board with dry erase markers and erasers. Clean, maintain, and supply the field office and sanitary facilities weekly; and equip with the following:

- Six suitable office desks with drawers and locks.

- Six ergonomically correct office chairs with five-legged base with casters and high back rest in working condition according to standard spec 642.2.2.1(5)
- One 4-drawer file cabinets
- Four 2.5’ x 5’ (minimum) tables
- Four 4’ x 8’ (minimum) tables for the meeting room
- Ten or more folding chairs

Provide and maintain an adequate supply of bottled drinking water.

Provide unlimited high-speed internet service for exclusive department use via cable or DSL connection with a modem/router and capable of supporting cloud enabled file sharing, voice over internet protocol (VoIP), video conferencing, and web-based applications. Ensure that the system meets the following:

- Includes a wireless network for the field office.
- Can accommodate IPSec based VPN products.
- Has a broadband bandwidth range with minimum connection speed of 200 Mbps per user download and 20 Mbps upload.

Provide one new Windows 10 compliant, high-capacity color printer/photocopier/scanner that uses toner (not ink) and with the following capabilities:

- Printing and copying both 8.5” x 11” and 11" x 17" paper with the ability to perform duplexing, sorting, stapling, and multiple sheet auto feeding.
- Scanning black and white and color documents on both 8.5” x 11” and 11" x 17" paper at a minimum of 1200 dpi.
- Producing a PDF of a copied or scanned document.
- Has a direct connection or field office wireless network connection, as approved by the engineer.

Replenish paper, toner cartridges, and other supplies before fully expended.

Maintain the field office equipment as requested by the engineer.

Provide clearly marked recycling and waste receptacles within the field office, and separate recycling and waste dumpsters near the field office. Cover outdoor containers to keep out rain and snow. Provide regularly scheduled recycling and waste pick-up.

Include an adjacent, no-fee, lighted parking lot large enough to accommodate the needs of the field office at peak usage, as approved by the engineer. Maintain the parking lot and egress, including snow removal.

C Construction

Do not combine field offices, or combine them with, or attach them to, any buildings used by the contractor, unless the engineer allows in writing. The contractor may furnish, if the contract allows, the field offices jointly in cooperation with other contractors on designated projects.

Do not begin construction operations requiring the use of the field office by the department until the required field office is approved by the engineer, furnished, fully equipped, and made ready for use as the engineer directs.

Make the field office available for the department until the engineer approves its closure. The field office is for the sole use of the department and upon contract completion remains the contractor’s property.

D Measurement

The department will measure Field Office Special as each individual field office, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.54	Field Office Special	EACH

Payment is full compensation for providing, equipping, securing, cleaning and maintaining the facility and associated parking lot; for recycling and waste pick-up; for telecommunications and internet equipment,

installation, and service fees; and for providing all incidentals, including bottled water, refrigerator/freezer, microwave, utilities, fuel, safety, ventilation, toilet facilities, and office supplies as required, either independently or jointly, for the time specified in section C.

85. Construction Staking Stormwater Management Ponds, Item SPV.0060.55.

A Description

Perform work according to the applicable provisions of subsection 650.3.2 and 650.3.3 of the standard specifications.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Construction Staking Stormwater Management Pond as each individual construction staking stormwater management pond, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.55	Construction Staking Stormwater Management Ponds	EACH

Payment is full compensation for locating and setting construction stakes; for adjusting stakes to ensure compatibility with existing field conditions; and for relocating and resetting damages or missing construction stakes.

86. Utility Line Opening (ULO), Item SPV.0060.56.

A Description

This special provision describes excavating to uncover utilities for the purpose of determining elevation and potential conflicts with proposed work, as shown on the plans or as directed by the engineer.

B (Vacant)

C Construction

Perform the excavation according to Wisconsin State Statue 182.0175.

Perform the utility line openings as soon as possible, before ordering precast structures, and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Allow the engineer a minimum of three working days once utility line opening information is received to review all relevant design information.

Coordinate and approve all utility line openings with the engineer. Notify the utilities a minimum of 3 days before the work so they may be present.

Backfill the excavation with suitable backfill material, and thoroughly compact.

D Measurement

The department will measure Utility Line Opening (ULO) as each individual utility line opening (ULO) acceptably completed. Utility line openings include a trench up to 10-feet long as measured at the trench bottom, and of any width and depth required to locate the intended utility. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be measured.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.56	Utility Line Opening (ULO)	EACH

Payment is full compensation for performing the excavation required to expose the utility line, backfilling, and for restoring and cleaning up the site.

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87. Temporary Water Diversion Unnamed Stream Realignment Sta. 586+50-593+50 NB, Item SPV.0060.57.

A Description

This special provision describes providing temporary water diversion for the unnamed tributary stream realignment located approximately Station 586+50 to Station 593+50 NB during all stages of construction.

Conform to the required Standard Specifications, Plan and the methods used must be approved in the Erosion Control Implementation Plan (ECIP).

B Materials

Furnish materials conforming to the necessary Standard Specifications based on the method of construction.

C Construction

General

Maintain channel flow at all times and minimize erosion into the existing stream using appropriate erosion control measures. Inspect Temporary Water Diversion(s) daily to ensure proper functioning and no erosion is occurring.

Ensure all portions of Temporary Water Diversion(s) accommodate the 2-year recurrence interval stream discharge. Provide overflow through the work zone for storms that exceed the 2-year flow. The 2-year recurrence interval stream discharges are as follows:

- Unnamed Stream Realignment Station 586+50 to Station 593+50 NB: 70 cubic feet per second.

Provide hydraulic calculations and temporary water diversion plan details at each required location. Include a summary of the Temporary Water Diversion duration at each required location. All methods of diversion, calculations and plans are subject to approval as part of the ECIP.

By-Pass Pumping

If by-pass pumping is used for Temporary Water Diversion, submit the means and methods proposed for to be used during construction for approval as part of the ECIP for each location it is required. Include the following in the ECIP: how the intake will be managed to not cause an increase in the background level turbidity during pumping, equipment pumping rate capabilities, discharge energy dissipation, and erosion controls. For by-pass pumping that will extend beyond one working day, the ECIP should also include how the work zone will be managed and protected, should the pump fail, be shut down due to unacceptable water quality, or storm water flows exceed the pumping rate of equipment. After the installation of the approved by-pass pumping operation, the contractor shall demonstrate that the means and methods will pump the water at an acceptable water quality prior to starting work that necessitates the by-pass pumping.

Temporary Channel

If a temporary channel is used for Temporary Water Diversion, submit the means and methods proposed to be used during construction for approval as part of the ECIP for each location it is required. Properly size pipes and channels to maintain channel flow. Divert the existing flow through a temporary open channel lined with polyethylene sheeting or other approved plastic. The bottom of the channel shall have a six-inch depth of course aggregate #2 stone. Divert flow into the temporary open channel utilizing barriers made of non-erodible materials, such as rock bags and polyethylene sheets, so as to prevent siltation into the live stream. Install an impervious barrier to isolate the connection of the temporary bypass channel from the existing channel and to isolate the new culvert work area from the temporary and existing channel to prevent the 2-year storm interval from back flowing in the work area. Include details of the temporary open channel and the non-erodible barrier system in the ECIP, for approval by the engineer.

Temporary Culvert

If a temporary culvert is used for Temporary Water Diversion, submit the means and methods proposed to be used during construction for approval as part of the ECIP for each location it is required. Properly size temporary culvert pipe to maintain channel flow. Divert flow into the temporary culvert pipe utilizing barriers or temporary channel made of non-erodible materials, such as rock bags and polyethylene sheets, and a channel comprised of plastic and #2 stone as described under Method #1. Include details of the temporary culvert pipe, the temporary channel, and the non-erodible barrier system in the ECIP, for approval by the engineer.

Restoration

Once water flow has been restored to the final location, grade, shape and finish all disturbed areas to their original existing contours or what is shown in the plan.

D Measurement

The department will measure Temporary Water Diversion Unnamed Tributary Stream Realignment Station 586+50-593+50 NB as a single 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.0060.57	Temporary Water Diversion Unnamed Stream Realignment Sta. 586+50-593+50 NB	EACH

Payment is full compensation for providing hydraulic calculations, plans, installation, daily inspections, any necessary modifications to the Temporary Water Diversion operation and removal when Temporary Water Diversion operation is no longer needed and grading to finished grade.

The department will pay separately for topsoil, seeding, fertilizer, e-mat, mulch and any other items needed for permanent restoration.

88. Temporary Lighting System Roby Road Roundabout, Item SPV.0060.58; Temporary Lighting System Rutland-Dunn Townline Road Roundabout, Item SPV.0060.59; Temporary Lighting System CTH B (East) Roundabout, Item SPV.0060.60.

A Description

This special provision describes furnishing, installing, adjusting, maintaining, and removing temporary lighting system. This temporary lighting system includes, wood poles and guy wires (as required to provide a complete system), aerial cable, and temporary utility electrical service.

B Materials

Furnish aerial cable consisting of an assembly of three No. 4 XLP insulated power conductors with an ACSR messenger (grounding) wire. Provide the quantity of parallel cable assemblies necessary to maintain lighting circuits.

Furnish Type 4 wood poles, 35-feet long.

Protect any cable that extends from grade to 10 feet above grade by a plastic cable guard.

C Construction

Roby Road Roundabout–Prior to salvaging and reinstalling existing light poles within the existing roundabout lighting system, install and maintain temporary electrical service to the existing Roby Road Roundabout lighting system.

Rutland-Dunn Townline Road Roundabout–Prior to switching traffic to the Stage 4 traffic control configuration (single-lane roundabout configuration), install and maintain temporary electrical service to the permanent light poles placed in prior stages.

CTH B (East)–Prior to switching traffic to the Stage 4 traffic control configuration (single-lane roundabout configuration) install and maintain temporary electrical service to the permanent light poles placed in prior stages.

Arrange for all required electrical services with the utility. Pay all utility company installation costs for modifications required to provide the temporary electrical service.

Provide off-hour contact name(s) and phone number(s) to the Dane County Sheriff's Department for repair purposes and be able to respond within two hours to the project site for knockdowns or other work that must be completed in a timely manner. All other maintenance needs shall be completed within 24 hours of notification.

Remove temporary service after permanent cabinet and wiring has been installed and the lighting system is operational.

D Measurement

The department will measure Temporary Lighting System (location) as each individual temporary lighting system, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.58	Temporary Lighting System Roby Road Roundabout	EACH
SPV.0060.59	Temporary Lighting System Rutland-Dunn Townline Road Roundabout	EACH
SPV.0060.60	Temporary Lighting System CTH B (East) Roundabout	EACH

Payment is full compensation for furnishing, installing and removing any necessary wood poles, aerial cable, for maintaining lighting units, for temporary electrical service and for furnishing and installing all coiling and splice connectors. Work including pulling cable and making final connections to the permanent lighting system will be paid for under the general lighting items unit price per quantity.

89. Dewatering Pond 1, Item SPV.0060.61.

A Description

This special provision describes providing dewatering Pond 1 during construction or working with the water at Pond 1 in a manner that allows the project to be constructed in accordance with the plans and specifications, including marsh excavation, early surcharge embankment fills, and pond reestablishment construction. This item includes removal of any water entering a trench or excavation including but not limited to groundwater, surface water runoff and/or trench dewatering, both clean and potentially contaminated.

B Materials

Discharge clean water (of any type or from any source) to the adjacent stormwater features. For the purposes of this project suspended solids will not be considered a type of contamination.

Provide all equipment and personnel necessary to conduct dewatering operations as required for the proper completion of the work. Prepare a dewatering plan and submit it to the engineer for review and approval prior to starting dewatering operations. The plan shall include a description of the proposed dewatering methods and maps or drawings indicating the location of the dewatering facilities and points of surface discharge of the water.

The contractor is solely responsible for choosing a method of water control that is compatible with the constraints defined. The contractor is responsible for the adequacy of the water control system and shall take all necessary measures to ensure that the water control operation will not endanger or damage any existing adjacent utility or structure.

Design, install and operate the method or methods of water control in such a manner as to provide satisfactory working conditions and to maintain the progress of work. Design the methods and systems so as to avoid settlement or damage to adjacent property in accordance with the applicable legislative statutes and judicial decisions of the State of Wisconsin. All required pumping, drainage and disposal of water will be done without damage to adjacent property or structures, or to the operations of other contractors and without interference with the access rights of public or private parties.

Comply with all local ordinances and state statutes for the disposal of water from dewatering operations. Further, it is the contractor's responsibility to contact the Wisconsin Department of Natural Resources Private Water Supply Section prior to construction for dewatering discharge requirements and permits and to comply with all conditions of the Department of Natural Resources. In accordance with Paragraph

144.025(2)(e), Wisconsin Statutes, permits are required for all groundwater control wells that singly or in aggregate produce 70 or more gallons per minute. All wells shall be drilled and sealed in accordance with requirements of the WDNR for installing and abandoning wells. The contact for obtaining well permits is:

Wisconsin Department of Natural Resources
Private Water Supply Section
Box 7921
Madison, Wisconsin 53707
(608) 261-6421
http://dnr.wi.gov/topic/Wells/dewatering.html

Provide a copy of the permit to the engineer 48 hours prior to commencement of any dewatering.

C Construction

Subsection 205.3 of the standard specifications is supplemented with the following:

Pump water from the dewatering operations directly to a minimum 1,500-gallon holding tank, or alternate method approved by the engineer, to allow for settlement of large solids. Periodically pump clean water from the top of the settling tank into the adjacent stormwater features.

If free phase petroleum product, such as gasoline floating on the water, is observed during dewatering activities, terminate dewatering activities, and notify the engineer.

Notify the engineer at least three working days in advance of any proposed changes to the dewatering plan.

Any flooding or erosion damage caused by dewatering operations is the responsibility of the contractor. If flooding or erosion damage occurs, take immediate steps to eliminate those conditions and to correct any damage. The control of all surface and subsurface water, ice, and snow are considered part of the dewatering. Erosion control shall be exercised at all times, including the placement of silt fences, sedimentation basins and any other devices necessary for proper control.

Dispose of all water removed so as not to endanger public health, private and public property or completed work. Comply with local requirements for noise control for all equipment utilized as part of the dewatering system. Provide sufficient mufflers or other noise reduction devices necessary to minimize the noise of the equipment. If ordered by the engineer, reduce noise to an acceptable level (as determined by the engineer) or supply an alternate system capable of meeting the noise requirements. This applies to any equipment utilized as part of the dewatering system.

Provide stand-by equipment to maintain continuous dewatering in the event of mechanical breakdown to part of the system.

Dewatering operations shall be maintained until the pond is reestablished and the reestablished pond is filled with water up to the normal water surface elevation.

The contractor is responsible for removal and/or abandonment of dewatering wells.

D Measurement

The department will measure Dewatering Pond 1 as each individual dewatering pond, 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.0060.61	Dewatering Pond 1	EACH

Payment is full compensation for furnishing all work necessary for pumping, settling, and discharging water, and for eliminating any correcting all flooding or erosion damage caused by dewatering operations.

90. Junction Boxes 8x8x6-Inch, Item SPV.0060.62; Junction Boxes 4x4x4-Inch, Item SPV.0060.63.

A Description

This work shall be according to the requirements of standard spec 653, the plans, standard detail drawings, and as hereinafter provided.

B Materials

According to the plans and standard spec 653.2.2 Junction Boxes.

C Construction

According to the plans and standard spec 653.3.

D Measurement

The department will measure Junction Boxes (size) as each individual junction box acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.62	Junction Boxes 8x8x6-Inch	EACH
SPV.0060.63	Junction Boxes 4x4x4-Inch	EACH

Payment is full compensation according to standard spec 653.5.

91. Removing Weigh-In-Motion Scale System, Item SPV.0060.64.

A Description

This special provision describes removing and disposing of the existing weigh-in-motion scale system in accordance to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Remove scale frames, platforms, sensors, loops, conduit, wiring, cabling electronics, concrete masonry and bases, poles, and all other associated components. All removed scale materials shall become the property of the contractor.

Coordinate with the local utility to de-energize and disconnect the electrical service.

D Measurement

The department will measure Removing Weigh-In-Motion Scale System as each individual removing weigh-in-motion scale 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.0060.64	Removing Weigh-In-Motion Scale System	EACH

Payment is full compensation for removing and disposing of the existing weigh-in-motion scale system, including all associated concrete masonry and bases, conduit, wiring, poles, and all other associated equipment. Payment also includes coordinating with the local utility to de-energize and disconnect the electrical service.

92. Relocating Landscaping Boulder, Item SPV.0060.65.

A Description

This special provision describes carefully removing the existing boulder at locations shown in the plans and relocating the boulder to a new location on site.

B (Vacant)

C Construction

Carefully remove and relocate the boulder to a property owner-designated location on the same parcel. Coordinate with the engineer prior to performing work under this bid item to determine the new boulder location.

Place the relocated boulder at a similar burial depth as existing or to a burial depth as directed by the engineer to maintain stability.

D Measurement

The department will measure Relocating Landscaping Boulder as each individual relocating landscaping boulder, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.65	Relocating Landscaping Boulder	EACH

Payment is full compensation for removing and relocating the boulder to the new location, restoring the site, and for cleanup.

93. Fish Sticks, Item SPV.0060.66.

A Description

This special provision describes using deciduous type trees previously cut by others and left on site, and trimming, placing, and anchoring the trees in the water for habitat structures along the shoreline, as shown in the plans, and as hereinafter provided.

B Materials

Use existing 8-inch minimum trunk diameter deciduous type trees with limbs that were cleared and left on site by others, as determined by the engineer and coordinated with the DNR Transportation Liaison.

C Construction

Notify Brian Taylor, Southwest Region Environmental Coordinator, phone (608) 245-2630, email BrianF.Taylor@dot.wi.gov and Eric Heggelund, Wisconsin Department of Natural Resources, phone (608) 228-7927, email eric.heggelund@wisconsin.gov at least 14 days prior to initiating fish sticks. The WDNR and/or engineer will determine final fish stick locations based on field conditions.

Cut, trim, and position trees along the shoreline at approximate locations designated on the plan. Remove any limbs as directed by the engineer. Anchor tress by burying butt ends of trees into the bank of the excavation so that the crown of the tree is laying on top of the open water as shown in plan details.

D Measurement

The department will measure Fish Sticks as each individual fish sticks, 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.0060.66	Fish Sticks	EACH

Payment is full compensation for cutting, trimming, moving, placing, and anchoring whole trees with limbs along the shoreline.

**94. Replace Water Valve Box, SPV.0060.67;
Curb Stop Vault, Item SPV.0060.68;
10-Inch x 6-Inch D.I. Tee, Item SPV.0060.69;
Connect to Existing Water Main, Item SPV.0060.71;
8-Inch x 8-Inch Cross, Item SPV.0060.72;
8-Inch D.I. Cap, Item SPV.0060.73;
8-Inch D.I. 11.25-Degree Bend, Item SPV.0060.74;
8-Inch D.I. 22.5-Degree Bend, Item SPV.0060.75;
8-Inch D.I. 45-Degree Bend, Item SPV.0060.76;
8-Inch x 6-Inch Reducer, Item SPV.0060.77;
8-Inch x 6-Inch D.I. Tee, Item SPV.0060.78;
8-Inch x 8-Inch Tee, Item SPV.0060.79;
8-Inch D.I. Gate Valve and Box, Item SPV.0060.80;
6-Inch D.I. Gate Valve and Box, Item SPV.0060.81;
Fire Hydrant, Item SPV.0060.82;
Curb Stop 1-Inch, Item SPV.0060.84;
Water Service Tap, Saddle, Corporation Stop, 1-Inch, Item SPV.0060.85;
Connect to Existing Sanitary Sewer, Item SPV.0060.86;
Adjust Sanitary Manhole Casting, Item SPV.0060.87;
Replace Sanitary Manhole Casting, Item SPV.0060.88;
Sanitary Drop Manhole 48-Inch, Item SPV.0060.90;
Sanitary Manhole 48-Inch, Item SPV.0060.91;
18-Inch x 4-Inch Wye, Item SPV.0060.93;
8-Inch x 4-Inch Wye, Item SPV.0060.94;
10-Inch D.I. 45-Degree Bend, Item SPV.0060.95;
Adjust Water Valve, Item SPV.0060.96.**

A Description

This special provision describes furnishing and installing water appurtenances as shown in the plans and as hereinafter provided; excavation, dewatering, and backfilling for all work under this section unless otherwise noted; and underground piping connections to all equipment, whether furnished under this section or not.

B. Materials

B.1 Applicable Specifications

Provide water system materials that are in conformance to the City of Stoughton Utilities.

A. All materials used in the manufacture, assembly, and painting of piping and valves in contact with water shall be compatible with potable water supplies and in contact with chemical feed systems shall be compatible with the chemicals being used. All glues, solvents, solders, etc., shall likewise be compatible. For instance, no lead-base solders shall be used. All materials in contact with water to be used for potable water supplies shall be National Sanitation Foundation (NSF)-approved.

B. Size and Type:

1. All materials shall conform to the size and type shown in the plans or called for in the specifications.

2. In joining two dissimilar types of pipe, standard fittings shall be used when available. In the event standard fittings are not available, the method of joining shall be standard selected by contractor and submitted for review by engineer.

C. Materials provided shall be suitable for the conditions in which they are being installed and used. contractor shall review installation requirements of the contract with material suppliers and incorporate any additional installation requirements necessary to meet the required use within the price bid for the work.

D. All pipe and materials used in performance of the work shall be clearly marked as to strength, class, or grade. Pipe and materials not so marked shall be subject to rejection.

E. When requested by engineer, material suppliers shall furnish certificates of compliance indicating that all tests required by various Standards have been conducted and that the text results comply with the Standards.

F. Piping appurtenances shall be made of the materials specified. All appurtenances not designated as to type shall be selected by contractor and submitted for review by engineer.

G. Each pipe and fitting shall have the weight, class or nominal thickness, country where cast, casting period, manufacturer's mark, the year in which the pipe was produced, and the letters DI or DUCTILE cast or stamped thereon. Improper or incomplete marking will be cause for rejection of the pipe or fitting.

H. Furnish certification data representing each class of pipe or fitting furnished. The certification report shall clearly stat that all pipe and fittings furnished meet the appropriate AWWA specification.

I. Except as otherwise specified, underground pipe and fittings shall have mechanical joints or push-on joint ductile iron fittings conforming to AWWA C110 and C111, as well as AWWA C153 (compact) with a minimum rated working pressure of 150 psi., with vulcanized styrene butadiene rubber gaskets conforming to AWWA C111. Gaskets that include metal locking segments vulcanized into the gasket to grip the pipe and provide joint restraint are not acceptable. Bolts on mechanical joints shall be high-strength low-alloy steel, "blue bolts" with fluoropolymer coating conforming to AWWA C111. Certificate to that effect shall be provided. Provide continuous continuity straps of cable across all fittings and valves.

J. Restrained joints shall be provided in accordance with Section C. Mechanical joints shall be restrained with MEGALUG Series 1100 or 1100 SD, by EBAA Iron Sales, Inc., UNIFLANGE Series 1400 by Ford Meter Box Co. Inc., or equal, restraint. Push-on joints for ductile iron piping shall be restrained with MEGALUG Series 1700 or 1100 HD, by EBAA Iron Sales, Inc., UNIFLANGE Series 1450 by Ford Meter Box Co., Inc., Flex-Ring or Lok-Ring by American Cast Iron Pipe Company, TR Flex by U.S. Pipe Company, TR Flex by McWane, or equal.

    1. Pipe restraint fittings shall be provided as follows:

        a. For ductile iron pipe with ductile iron mechanical joints MEGALUG Series 1100 or 1100SD by EBAA Iron Sales, Inc.; Series D SLDE or SSLD by Sigma; Series 3000 or 3000S by Star Pipe Products; or equal.

        b. For ductile iron pipe with ductile iron mechanical joints MEGALUG Series 1100HD or 1700 by EBAA Iron Sales, Inc., Series SLDEH or SSLDH by Sigma; Series 3100P or 3100S by Star Pipe Products; Flex Ring or Lok Ring by American Cast Iron Pipe Company; TR Flex by U.S. Pipe Company; or equal.

    2. Gland body, wedges, and wedge actuating components shall be ductile iron conforming to ASTM A536 Grade 65 45 12. Bolts and tie rods shall be high strength low alloy steel conforming to AWWA C111.

    3. Gaskets that include metal locking segments vulcanized into the gasket to grip the pipe to provide joint restraint are not acceptable.

K. Joint restraint shall be provided for any pipe requiring pressure testing.

L. Unless otherwise specified, all exterior ductile iron piping and fittings shall be cement-mortar lined and asphaltic-coated inside. Cement-mortar lining shall be in accordance with AWWA C104. Unless otherwise specified, underground piping and fittings shall be shop primed or asphaltic-coated outside. Asphaltic coating shall conform to applicable standards herein for the pipe and fittings.

M. For potable water systems, the outside pipe coating shall comply with AWWA C151. Lining and coatings shall be suitable with potable water systems. The asphaltic coating shall be applied over the cement lining on the inside of the pipe and directly on the outside of the pipe. The coatings shall be smooth and impervious to water without any tendency to scale off.

N. All buried ductile iron piping and appurtenances shall be polyethylene encased in accordance with AWWA C105. Polyethylene encasement shall be Class C (carbon black) and shall be minimum 8 mil thickness. Tape for securing the film shall be a thermoplastic material with a pressure sensitive adhesive face capable of bonding to metal, asphaltic coating, and polyethylene. Tape shall have a minimum thickness of 8 mils and a minimum width of 1 inch. The Polyethylene film envelope shall be as free as is commercially possible of gels, streaks, pinholes,

particles of foreign matter, and undispersed raw materials. There shall be no other visible defect, such as holes, tears, blisters, or thinning out at folds.

O. Exterior Joints, Fittings, and Gaskets: Joints, fittings, and gaskets shall have the same rated working pressure of the pipe in which they are installed but no less than a minimum rated working pressure of 150 psi.

P. Valve Boxes:

1. A valve box shall be provided for fire hydrant auxiliary valves and for valves in the main. The valve box shall be centered and plumb over the wrench nut of the valve with the box cover flush with the finished ground elevation. Solid 4-inch concrete blocks shall be placed under the base of valve boxes so that the bottom of the base is about 2 inches away from contact with the valve bonnet. A Gate Valve Adaptor by Adaptor Inc., or equal, shall be provided. The valve box shall not transmit shock or stress to the valve.

2. Valve boxes shall be made of cast iron conforming to ASTM A48. The castings shall be free from blowholes, porosity, hard spots, shrinkage defects or cracks, or other injurious defects and shall have a normal smooth casting finish. The castings shall be thoroughly coated with a 1 mil minimum thickness bituminous coating. Valve boxes shall be 5 ¼ inches in diameter. Valve boxes shall have a maximum length of 7 feet when extended without extension sections. Extensions shall be provided for deeper mains.

3. Valve boxes shall consist of a base section, tubular mid and top sections, both with cast threads by which one can be telescoped on the other, extension sections if required, and a circular drop cover unless indicated otherwise.

4. Valve boxes shall be Tyler/Union 6850 Series, 4 inches through 12 inches, or equal. Extension heights shall be provided as required. Lids shall be marked for appropriate use. Verify that all valve boxes are large enough to accommodate all operation nuts and wrenches.

Q. Valves:

1. Shutoff valves on water main 4-inch diameter and larger shall be AWWA C515, ductile iron AWWA C509, cast iron, resilient seat, right close, nonrising stem, 150 psi working pressure with O-ring packing box. Mueller A-2370-20 R.S., include a three piece cast iron, screw type, 5 ¼ inch shaft valve box with nontip cover marked “WATER”, Tyler 6860 or equal. A gate valve adaptor by Adaptor, Inc., or equal shall be provided with all valve boxes.

R. Manholes:

1. Unless otherwise specified or shown on the drawings for special manholes, all manholes shall be reinforced concrete precast manholes. Reinforced concrete manhole base sections, riser sections, cones, and flat slabs shall conform to the requirements of ASTM C478. Solid precast manhole bottoms shall be provided except where shown on the Drawings.

2. Manhole top sections shall be precast reinforced eccentric cones unless precast reinforced flat slabs are specifically required or shown on the Drawings or are necessary because of shallow depth. Flat slabs shall have openings offset unless otherwise required or shown. Flat slabs shall be designed for HS20 loadings.

3. Precast reinforced concrete manhole risers and tops shall be tested in accordance with ASTM C497. Precast reinforced concrete manhole risers and tops meetings the strength requirements will be considered acceptable and shall be stamped with an appropriate monogram. When requested, copies of test reports shall be submitted to the engineer before the manhole sections are installed in the Project. Final acceptance will be made after field inspection upon delivery to the jobsite.

4. Precast reinforced concrete manhole sections shall be subject to rejection for failure to conform to any of the requirements of the Standard Specifications. In addition, individual sections of manhole risers and tops may be rejected because of any of the following reasons:

a. Fracture or cracks passing through the wall, except for a single end crack that does not exceed the depth of the joint.

b. Defects that indicate imperfect proportioning, mixing, and molding.

c. Surface defects indicating hone combed or open texture.

d. Damaged ends, where such damage would prevent making a satisfactory joint.

e. Manhole steps out of line, or not properly spaced.

f. Noticeable infiltration into manhole.

g. Variation in diameter of the manhole section of more than 1% from the nominal diameter.

h. Any continuous crack having a surface width of 0.01 inch or more and extending for a length of 12 inches or more regardless of position in the section wall.

5. Each precast reinforced concrete manhole riser and top section shall be clearly marked with the name or trademark of the manufacturer and the date of manufacture. This marking shall be indented into the manhole section of shall be painted thereon with waterproof paint.

6. Lengths of manhole riser (barrel) shall be furnished in such combinations as to conveniently make up the depth of the manhole. A maximum of two handling holes per length of riser will be permitted.

7. Drop entrances to sanitary sewer manholes shall be installed where indicated in the plans. Drop entrances shall be of the same diameter as the sewer main from sizes 8 inches through 18 inches. For larger diameters, the drop shall be 18 inches unless otherwise shown in the plans.

8. The interior bottom of sanitary sewer manholes shall be constructed on concrete benches which shall be precast or poured in place in the field. Benches shall extend to the top of each pipe to a maximum height of 42 inches. Flow lines shall be made smooth with uniform curves to promote flow through the manhole.

9. All joints between manhole pipe sections and top shall be tongue and groove conforming to ASTM C443. Manhole joints shall be sealed with circular O ring or preformed flexible joint sealant that shall be Ram-nek, Kent-Seal, Mas-stik, or equal.

10. Manhole connections for sanitary sewer mains shall be made using flexible, watertight connections, PSX Press Seal, Kor N Seal, or equal, for sewers up through 18-inch diameter. All other sanitary sewer manhole connections shall be made with A Lok, PSX Press Seal, Kor N Seal, or equal. The joint shall provide a flexible, watertight connection between pipe and manhole.

11. Manhole bottoms for sanitary sewer shall be monolithically precast with the bottom section for manholes up through 6-foot diameter. Bottoms for larger diameter manholes shall be precast but need not be monolithically cast with the bottom section.

12. Steps shall be installed in all manholes by the manufacturer and shall be cast iron conforming to ASTM A48 or steel reinforced plastic conforming to ASTM A615, Grade 60 and ASTM D4101 with molded copolymer polypropylene covering conforming to ASTM D4101, Type PP200B33450Z02, or equal. Manhole steps shall be spaced 16 inches on center with an allowable tolerance of (plus or minus) 1 inch. Steps shall be inserted in manhole riser, cone, and flat slab sections prior to the initial set of the concrete in accordance with ASTM C478 and shall have maximum embedment and pullout resistance in accordance with ASTM C497. The top step shall be located 10 inches or less from the top of the manhole cone section or uppermost structure section. Manhole steps shall be Neenah Type R-1981-N, M. Industries, Inc. PS1-PF, or equal.

13. Sanitary Sewer Manhole Adjusting Rings:

a. Sanitary sewer manhole adjusting rings shall be injection molded-recycled HDPE as manufactured by Ladtech, Inc., or expanded polypropylene as manufactured by Cretex Specialty Products.

b. Supply ring materials, adhesive, labor, and equipment to install the rings in strict accordance to manufacturer's recommendations. CONTRACTOR shall permanently install rings with adhesive so that all manhole casting rims are set level with plan grade. Ring inside diameter shall be 24-inch nominal, or larger to match frame.

c. Contractor shall have all ring sizes available when rebuilding tops of manholes, including tapered sections to allow for seamless adjusting of frame elevations on flat and sloped surfaces.

d. Concrete adjusting rings shall not be used for manhole adjustments.

14. All manhole castings shall be gray iron and meet the requirements of ASTM A48. Unless otherwise shown on the Drawings, standard manhole castings shall be Neenah R1550 with machined frame, Type B solid lid, concealed pick holes and self-sealing gaskets for sanitary sewer manholes. Manhole castings in street areas shall have non-rock feature. Floodproof castings shall be Neenah R1916 C with machined frame, type B solid lid, concealed pick holes and self-sealing gaskets.

15. All existing casting shall be salvaged to the City of Stoughton Utilities.

S. Curb Stop Vault Boxes

1. Curb stop vault boxes shall be provided for curb stops that are within sidewalks, driveways or other hard surfaces. The Neenah frames and lid are identified in the contract document details.

T. Tracer Wire

1. Provide minimum 10-gauge solid insulated copper tracer wire with buried thermoplastic pressurized pipe. Wire shall be continuous, terminate, and be accessible at valve boxes, manholes, fire hydrants, or at test stations as specified below. Tracer wire shall be located 12 inches above the top of the pipe. Any splices in copper wire shall be made with a 3M DBR/Y-6 splice kit, or equal.

2. Tracer wire test stations shall be SnakePit magnetized tracer boxes by Copperhead Industries, or equal. Tracer box shall be corrosion-resistant brass wire lugs and wax pad to cover wire connection. Cover shall be color-coded according to APWA standards for fluid conveyed. Provide SnakePit Lite Duty Box in unpaved areas and Roadway Box in paved areas. Provide Rhino Triview Marker Posts, or equal, at all test stations. Provide custom decals to identify fluid in piping. The tracer wire shall be accessible at a minimum of every 500 feet along the pipeline and at horizontal bends in piping. Test stations shall be placed as required between manholes to comply with the minimum 500-foot tracer wire accessibility requirement.

3. Perform continuity testing of all tracer wire in the presence of the engineer.

U. Fire Hydrants

1. Fire hydrants provided under these Standard Specifications shall conform to AWWA C502 for Dry Barrel Fire Hydrants. Hydrants shall have the following features:

Bury Length	Approximately 7 ½ feet to traffic flange. CONTRACTOR to verify.
Nozzle Size	One 4 ½-inch and two 2 ½-inch diameter openings
Nozzle Threads	National standard fire hose coupling screw threads
Drain Port	Drain port at base of hydrant barrel. Plug drain port when hydrant installed in area where groundwater level may rise above drain port
Size of Main Valve Opening	5 ¼-inch diameter. The hydrant lead connection shall be minimum 6-inch diameter mechanical joint.
Torque Requirements	Hydrant shall comply with AWWA C502 even if greater than 5-foot bury
Lubrication	Nontoxic and providing proper lubrication for a temperature range of -30°F to +120°F.

2. Hydrants shall have permanent markings identifying the manufacturer by name, initials, insignia, or abbreviations in common usage, and designating the size of the main valve opening and the year of manufacture. Markings shall be so placed as to be readily discernible and legible after hydrants have been installed.

3. Furnish certification to the engineer that the hydrant and all material used in its construction conform to the applicable requirements of AWWA C502 and the supplementary requirements thereto.

4. All joints on fire hydrant leads shall be made using pipe restraint specified herein. Approximately ½ cubic yard of bedding stone shall be placed from the bottom of the trench around the hydrant elbow and up the hydrant barrel. Bedding stone shall be wrapped completely in filter fabric to prevent the in migration of fine materials.

5. Furnish all necessary fittings in the fire hydrant lead to install the fire hydrant in a plumb condition at locations shown on the Drawings and at the specified depth of bury. The pumper nozzle of all fire hydrants shall be installed with the nozzle pointing toward the street. The engineer reserves the right to alter the location of the fire hydrant from that shown on the drawing.
6. Fire Hydrants shall be:
    a. Fire hydrant shall be Waterous W-67 Pacer.
    b. All new fire hydrants shall be furnished with FlexStake 800 Series Marker Flag, red in color, 48-inch length.
    c. Hydrant to be painted red.
    d. Provide restrained joint system from auxiliary valve in road box back to the tee.
    e. Connect hydrant to auxiliary valve with 2-foot length of pipe.
    f. Provide drain port at base of hydrant barrel. Plug drain port when hydrant installed in area where groundwater level may rise above drain port.
    g. Provide bury length or barrel extensions to meet the finished grad elevations necessary in the field after installation.
    h. Salvage all existing fire hydrants to the City of Stoughton Utilities.

V. Corporation Stop and Curb Stop Valves

1. Performance Requirements: Lead Free Requirements require all materials that contact potable water shall be lead free. Lead free refers to the wetted surface of pipe, fittings and fixtures in potable water systems that have a weighted average lead content of less than or equal to 0.25% per the Federal Safe Drinking Water Act as amended January 4th, 2011 Section 1417. All products used in potable water systems shall be UL classified in accordance with ANSI/NSF 61 for potable water service and shall meet the low lead requirements of NSF 372.
2. Corporation Stop Valves: 2 Inches and smaller shall be bronze body ground key valve, bronze plug, compression type, AWWA C800. Corporation stops shall be Mueller H 15008N.
3. Curb Stop Valves: Boxes 2-inches and smaller shall be bronze body plug valve, bronze plug, quarter turn check, O ring seals, compression type, AWWA C800. Curb stops shall be Mueller H15209N.
4. Curb boxes shall be Bingham and Taylor 4901-R with stationary rod, ring and pin, size 94F with service box extension as needed. Lid shall be marked “WATER.”

B.2 Shop Drawings

Prior to incorporating any materials or products into the work, submit to the engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

C.1 Applicable Specifications

Perform all water system construction in conformance to the City of Stoughton Utilities and the Standard Specifications for Sewer and Water Construction in Wisconsin.

C.2 Water Main and Sanitary Sewer Utilities

A. Utility lines shall be laid and installed to the lines and grades specified with valves, fittings, manholes, and other appurtenances at the specified locations; spigots centered in bells; and all manholes and riser pipes plumb. Water main shall be installed at the depth indicated. Gravity sewer mains and lateral shall maintain a minimum 6.5 feet of cover but shall be deep enough to provide service to buildings. Water main and other pressure mains shall be installed to within (plus or minus) 0.1 feet of designed grades. Sanitary and laterals shall be installed to within (plus or minus) 0.03 feet of designed grades. Service lines shown on the Drawings are approximate.

B. Material Inspection: Inspect the pipe, fittings, and appurtenances for defects when delivered to the jobsite and prior to lowering into the trench. Defective material shall be removed from the jobsite. All material shall be clean and free of deleterious substances prior to use in the Work.

C. Except where noted or specified, all ductile iron underground piping shall be laid in accordance with AWWA C600 or AWWA C605 with the conditions that (a) blocking shall not be used to support pipe and (b) all bends and fittings shall be restrained as specified below, and pipe joints shall be restrained in all directions from all bends and fittings to the length as specified below.

D. Pipe Length:

1. The minimum length of pipe to be restrained shall be as shown in the following table.

2. This table assumes horizontal orientation of fittings, 150 psi test pressure plus a 100 psi water hammer allowance, ductile iron pipe, and a 3-foot bury. Lengths shall be adjusted for other conditions and fittings. For other fittings and for more specific requirements, see the drawings:

REQUIRED LENGTH OF RESTRAINED PIPE BEYOND FITTING IN FEET

FITTING	MINIMUM LENGTH – FT
90 Degree Bend (≤ 6 inches)	36
90 Degree Bend (8 inches to 10 inches)	54
90 Degree Bend (12 inches to 14 inches)	72
90 Degree Bend (16 inches)	84
45 Degree Bend (≤ 8 inches)	18
45 Degree Bend (10 inches to 16 inches)	36
22 1/2 Degree Bend (≤ 16 inches)	18
11 1/4 Degree Bend (≤ 16 inches)	9
Fire Hydrant Leads	All Joints
End of Line Tees (≤ 4 inches)*	18 (Along Branch)
End of Line Tees (6 inches to 8 inches)*	36 (Along Branch)
End of Line Tees (10 inches to 12 inches)*	54 (Along Branch
End of Line Tees (14 inches to 16 inches)	72 (Along Branch)

*Restrained run length on tees assumed 18 feet on each side of fitting

E. Water main shall be installed in accordance with AWWA C600 for iron pipe, AWWA C605 for PVC pipe, and AWWA M55 for HDPE pipe. All plugs, caps, tees, hydrants, bends, and other fittings for water mains and force mains shall be provided with restrained joints.

F. PVC sewer shall be installed in accordance with ASTM D2321.

G. Lay all gravity pipe to the line and grade shown on the drawings with bell ends uphill wherever possible. If not possible, lay pipe to the line and grade shown on the drawings with bell ends in the direction of laying. Water piping shall have a minimum of 6 ½ feet of cover.

H. Any pipe or fittings cracked in cutting or handling or otherwise not free from defects shall not be used. Pipe must be kept clean of mortar, cement, clay, sand, or other material. When PVC piping is installed during hot weather, it shall be laid in the trench with slack or permitted to cool to ground temperature before it is cut to length for making final connections. PVC expansion joints shall be provided where needed.

I. At times when pipe laying is not in progress, the open ends of pipe shall be closed with plugs to prevent the entry of foreign material. Acceptable plugs include Foreman Nite Caps by APS, mechanical joint cap or plug, bladder plug, or test plug. All foreign material shall be removed from the pipe prior to acceptance.

J. The locations and elevations of existing piping and manholes are approximate. Where necessary, existing piping shall be exposed by the contractor to confirm location and elevation before installing new piping. Any changes in pipe location or elevation shall be approved by City of Stoughton Utilities.

K. General Excavation:

1. Pipe Laying:

a. All pipe shall be laid accurately to the line and grade as designated. Preparatory to making pipe joints, all surfaces of the portions of the pipe to be jointed or of the factory made jointing material shall be clean and dry. Lubricants, primers, adhesives, and other joint material shall be used and install as recommended by the pipe or joint manufacturer's specifications. The jointing materials or factory fabricated joints shall then be placed, fitted, joined, and adjusted in such a workmanlike manner as to obtain the degree of watertightness specified. Pertinent specifications from the joint and pipe manufacturer which outline procedures to be followed in making the joint shall be furnished to the engineer.

b. Wyes, tees, and special fittings shall be installed as called for on the drawings, or as requested by the engineer. Wyes, tees, and special fittings shall, in general, be jointed with the same type of joint as used in the pipe.

c. In joining two dissimilar types of pipe, manufactured adapters and fittings shall be used. Adapters and fittings shall be configured to maintain invert elevations at same level.

d. Joint deflections shall not exceed the limits established by the pipe manufacturer for the pipe and joint being used.

e. Joints that are damaged because of carelessness, improper handling, or failure to prevent imperfections in manufacture shall be subject to rejection and gaskets shall be subject to rejection whenever they show surface cracking, tears, or splice separation.

L. Sewer Service Branch and Lateral Installation

1. Furnish and install sanitary sewer branches, laterals, and leads as shown on the drawings or requested by the engineer. Under normal circumstances, service laterals will be installed within the right of way or easement to serve all existing buildings and all platted lots. In certain cases, only wye or tee branches will be installed to vacant lots. Service laterals shall consist of a branch fitting at the main and extension of the specified lateral pipe to the end of lateral as called for and requested. All necessary fittings shall be furnished and installed to complete the installation.

2. Wye or tee branches: Wherever shown on the drawings or requested by the engineer, wye or tee branches shall be provided for use in making sanitary sewer service connections. Unless specified otherwise on the Drawings, wye or tee branches for sanitary sewer service lateral connections shall be 4-inch diameter or 6-inches to match existing.

3. Sanitary sewer service branches shall be turned so that the branch is at an angle of 30 degrees or 45 degrees from the horizontal.

4. Installation and Testing Requirements: Except for those branches that are to be used for extending sanitary sewer service laterals, wye and tee branches shall be closed with airtight stoppers blocked to withstand air test pressures.

5. The ends of all laterals shall be plugged and blocked to resist air test pressures. All plugs shall be manufactured to fit the pipe used and shall be watertight.

6. Unless otherwise provided for in the plans, each service lateral shall have a tracer wire installed from the main to the property line or the location of the connection to the existing service, whichever is greater or applicable. The tracer wire shall be 10-gauge solid copper with no splices. The wire shall be secured to the pipe with duct tape at a minimum of 3-foot intervals. The ends of the tracer wire shall be brought to the surface and stored in an access terminal box, DWS-Tracer Wire Access Box, or equal, at a location selected by City of Stoughton Utilities. Eighteen inches of additional wire length shall be coiled at the location of the terminal box. Confirm the method of installation is compatible with OWNER's means of detecting the location of the service lateral. Each tracer wire shall be tested by the contractor to confirm it accurately provides the location and depth of the sewer lateral.

7. A complete and accurate tabulation of length, depth, and location of all branches, risers, and laterals shall be kept by contractor on cards available from the engineer. Measurements shall be made from the nearest downstream manhole. Lateral installation to meet these Standard Specifications and field conditions are the responsibility of the contractor. Problems

occurring because of failure to provide proper installation or proper records shall be corrected by the contractor at its expense.

8. No installed lateral shall be backfilled until the engineer has been notified that the lateral is complete and reasonable time is allowed for observation of the work.

9. Marker balls shall be installed with all new sanitary sewer laterals. At a minimum, marker balls shall be installed above the wye at the main and near the end of the lateral. Marker balls shall also be installed at all intermediate bends in the sewer lateral. Marker balls shall be 3M ScotchMark Electronic Ball Marker Model #1404-XR. Marker balls shall be installed as recommended by the manufacturer.

M. Water Service Lateral Installation:

1. Water service laterals requiring reconstruction and new service lateral shall be installed in accordance with AWWA C600. Perform all excavation, backfill, and other work necessary for a complete installation. The service tubing shall be continuous and shall be placed at a minimum depth of 6.5 feet. Each service shall include a corporation stop at the main, copper service tubing, curb stop, curb box, couplings, and all other appurtenances necessary for a complete installation. Where existing services in the street are being reconstructed, the new service shall be connected to the existing service at the property line unless otherwise shown or specified. Taps in the main shall be at an angle of 45 degrees above the horizontal.

2. All curb boxes on new services shall be marked by placing a 4-foot long 2 by 4 adjacent to it. The 2 by 4 shall project 1 foot above existing ground and shall be painted blue. All services shall be extended to the street property line, unless otherwise shown or specified.

3. In cases where corporation stops are to be tapped into mains, pipe wall thickness shall be furnished as specified in AWWA C151 to provide four threads or pipe saddles shall be furnished as approved by the manufacturer.

N. Manholes:

1. Manholes shall be plumb with any steps aligned and openings located over the steps. For sanitary sewers, opening shall be located over the bench and not the sewer flow line itself.

2. All manholes shall be made watertight and shall show no visible signs of leakage at the time of final review and within the correction period. Any leakage shall be sealed from the exterior of the manhole.

O. Valve Boxes:

1. The valve box shall be centered and plumb over the wrench nut of the valve with the box cover flush with the finished ground elevation. The valve box shall not transmit shock or stress to the valve.

2. Water valves shall be adjusted to a height of 1/4-Inch below the temporary and finished pavement elevation. Adjustment to the final grade of newly installed water valves shall be incidental to the cost for construction and installation of the water valve. Existing water valves adjusted due to pavement elevation alterations shall be paid separately. Multiple adjustments of the water valves may be necessary to accommodate the project staging for temporary and final pavement and shall be inclusive to this bid item.

P. Connections to and Modifications of Structures and Mains:

1. Unless otherwise noted on the drawings, openings in existing structures to allow for connection of mains shall be core drilled, and the mains themselves shall be connected by use of watertight connections as specified in the Standard Specifications. Flow channels in the bottoms of existing structures shall be modified as necessary to provide smooth transition for incoming flow and/or orientation of mains. These modifications may include breaking out and reforming flow channels.

C.3 Connect to Existing Water Main and Sanitary Sewer

Provide all labor and materials required to properly connect the new water main pipe to the existing water main pipe at the locations shown. All fittings, including vertical bends, to properly align the new and old pipe and complete the connection are included. Multiple adjustments of the water valves may be necessary to accommodate the project staging for temporary and final pavement and shall be inclusive to this bid item.

C.4 Adjust Sanitary Manhole Casting and Water Valves

Provide all labor and materials required to properly adjust manhole castings prior to paving. Adjustment rings as specified to be used. Manhole castings and water valves to be adjusted to be below the final lift of asphalt by 1/4-inch.

C.5 Replace Sanitary Manhole Casting

Provide all labor and materials require to remove and replace the sanitary manhole casting as shown on the Contract Documents. Contractor shall provide the materials necessary to complete the installation of the casting to provide a leak free connection and all appurtenances similar to a new manhole connection.

C.6 Replace Water Valve Box

Notify the City if a water valve box or casting is broken. Replace the water valve box using the City required materials at the same location. It is anticipated the valve box and casting would be replaced if determined to be found damaged in the field.

C.7 Curb Stop Vault

Install a Neenah Curb Stop Vault to protect water curb stops that fall within sidewalks, driveways or other hard surfaces. In general, the curb stops are intended to be within the grass terrace areas but areas that this is not possible, the curb stop should be protected by a vault as detailed in the construction documents. The vault shall be installed within the concrete or asphalt pavement where applicable and the curb stop lowered below the lid in the closed position.

D Measurement

The department will measure Water Valves and Boxes (Size); Tees (Size); Bends (Size); Reducers (Size); Caps (Size), Fire Hydrants, Connect Water Main to Existing Pipe; Wyes (Size); Replace Sanitary Manhole Casting, Adjust Sanitary Manhole Casting, Adjust Water Valves, Curb Stop Vault, Replace Water Valve Box, and Connect to Existing Sanitary Sewer, as each individual unit, approved by the City of Stoughton, and acceptably constructed in accordance with the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.67	Replace Water Valve Box	EACH
SPV.0060.68	Curb Stop Vault	EACH
SPV.0060.69	10-Inch x 6-Inch D.I. Tee	EACH
SPV.0060.71	Connect to Existing Water Main	EACH
SPV.0060.72	8-Inch D.I. Cross	EACH
SPV.0060.73	8-Inch D.I. Cap	EACH
SPV.0060.74	8-Inch D.I. 11.25-Degree Bend	EACH
SPV.0060.75	8-Inch D.I. 22.5-Degree Bend	EACH
SPV.0060.76	8-Inch D.I. 45-Degree Bend	EACH
SPV.0060.77	8-Inch x 6-Inch Reducer	EACH
SPV.0060.78	8-Inch x 6-Inch D.I. Tee	EACH
SPV.0060.79	8-Inch x 8-Inch D.I. Tee	EACH
SPV.0060.80	8-Inch D.I. Gate Valve and Box	EACH
SPV.0060.81	6-Inch D.I. Gate Valve and Box	EACH
SPV.0060.82	Fire Hydrant	EACH
SPV.0060.84	Curb Stop 1-Inch	EACH
SPV.0060.85	Water Service Tap, Saddle, Corporation Stop, 1-Inch	EACH
SPV.0060.86	Connect to Existing Sanitary Sewer	EACH
SPV.0060.87	Adjust Sanitary Sewer Manhole Casting	EACH
SPV.0060.88	Replace Sanitary Manhole Casting	EACH
SPV.0060.90	Sanitary Drop Manhole 48-Inch	EACH
SPV.0060.91	Sanitary Manhole 48-Inch	EACH
SPV.0060.93	18-Inch x 4-Inch Wye	EACH
SPV.0060.94	8-Inch x 4-Inch Wye	EACH
SPV.0060.95	10-Inch D.I. 45-Degree Bend	EACH

SPV.0060.96	Adjust Water Valve	EACH

Payment is full compensation for furnishing and installing all materials, including valves and valve boxes, tees, bends, reducers, caps, couplings, connection sleeves, polyethylene encasement, thrust restraint, wyes, tracer wire, and other required materials to provide a complete working system; for all excavating, except rock excavation; for removing or abandoning the existing pipe or fixture that the new item replaces; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for dewatering; for making connections to new or existing pipe or fixtures; for backfilling and compacting; for providing granular backfill material, including bedding material; for providing trench insulation where required; for removing sheeting and shoring; for testing and chlorination; for cleaning out pipes and structures; and restoring the worksite.

Payment for Water Valves and Boxes (Size) also includes valve box adaptors, polyethylene encasement, and all other fittings to properly install each valve and box according to the specifications.

95. Abandon Existing Water Main, Item SPV.0060.70; Remove Existing Fire Hydrant, Item SPV.0060.83; Plug Existing Sanitary Manhole, Item SPV.0060.89; Remove Existing Sanitary Manhole, Item SPV.0060.92.

A Description

This special provision describes abandoning and/or removing the existing water main, sanitary sewer, and appurtenances during the project.

B Materials

Furnish tools and equipment to abandon the existing water main, plug existing sanitary manholes, abandon and remove existing sanitary manholes and fire hydrants according to the City of Stoughton and the Standard Specifications for Sewer and Water Construction in Wisconsin.

All materials used shall conform to the size and type shown in the plans or called for in the specifications.

Provide materials suitable for the conditions in which they are being installed and used. Review installation requirements of the contract with material suppliers and incorporate any additional installation requirements necessary to meet the required use within the price bid for the work.

C Construction

Remove or abandon all existing piping and appurtenances as noted. Unless otherwise shown or specified, piping and appurtenances to be removed shall become the property of the contractor and shall be removed from the site for salvage or disposal (with the exception of castings and fire hydrants that shall be delivered to the City of Stoughton Utilities). Unless otherwise shown or specified, piping shown or specified to be abandoned shall have each end plugged with concrete or nonshrink grout. Wherever excavations cross piping to be abandoned, piping shall be removed to the limits of the excavation and the ends shall be plugged appropriately.

Utilities to be abandoned shall, unless otherwise noted in the plans, be abandoned in place. Open ends of pipe shall be plugged with 12 inches of concrete or nonshrink grout. Manhole barrels, valve boxes and other such structures shall be removed to a point 3 feet below existing or final ground surface, whichever is lower, and shall then be filled with backfill material compacted to that of the trench backfill. An approximate 9-inch-diameter opening shall be made in the bottom of the structure to allow for groundwater movement.

D Measurement

The department will measure the Abandon Existing Water Main, Plugging of Manholes, and Abandonment and Removal of Sanitary Manholes as each individual item, approved by the City of Stoughton Utilities, and acceptably abandoned in accordance with the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.70	Abandon Existing Water Main	EACH
SPV.0060.83	Remove Existing Fire Hydrant	EACH
SPV.0060.89	Plug Existing Sanitary Manhole	EACH

SPV.0060.92	Remove Existing Sanitary Manhole	EACH

Payment is full compensation for furnishing and installing all materials and disposal of the removed materials.

96. J-Hook, Item SPV.0060.991.

A Description

This special provision describes placing J-Hooks within a stream as shown in the plans and described below.

B Materials

Provide logs of the diameters and lengths shown on the plans from trees previously cut and left on site. Provide rocks/boulders conforming to standard spec 606.2.1 requirements for Riprap Extra-Heavy. Substituting waste concrete slabs for rocks is not allowed. Provide Erosion Mat Class II Type C conforming to standard spec 628.2.1.2.

C Construction

Excavate out area to bury the sill log within the stream embankment. Place an anchor stone on top of the sill log to allow the sill log to extend further into the bank. Excavate area to place the header log as shown in the plans, with room to bury the header log past the hook portion of the assembly. Place the footer log from the upstream end to protect the header log from any scouring. Place Erosion Mat Class II Type C along the embankment side of the header and footer log, then place Cobble/Field Stone Mix as backfill to the height of the header log. Cobble/Field Stone Mix shall be compacted using approved techniques to keep future settlement to a minimum. Excavate a trench to place hook portion of the assembly, placing rocks/boulders as described above and the layout shown in the plans.

D Measurement

The department will measure J-Hook by each location, acceptably completed. Rocks/boulders placed as anchor stones and as the hook, and Erosion Mat Class II Type C are considered part of the assembly and will not be measured separately. The department will measure Cobble/Field Stone Mix separately.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.991	J-Hook	EACH

Payment is full compensation for excavation and shaping of area, providing and placing all logs, erosion mat, rocks/boulders, shaping, restoration, and disposing of excess material. The department will pay separately for Cobble/Field Stone Mix. Rocks/boulders placed as anchor stones and as the hook, Erosion Mat Class II Type C are considered part of the assembly and will not be paid for separately.

97. Temporary Utility Connection, Item SPV.0060.992.

A Description

This special provision describes providing a temporary utility connection between new installed utilities and existing utilities as necessary between stage limits anticipated as shown in the plan.

B Materials

Furnish tools and equipment to cut, connect, and remove temporary connections from the newly installed utilities to the existing utilities as necessary between phases of the work according to the City of Stoughton and the Standard Specifications for Sewer and Water Construction in Wisconsin.

All materials used shall conform to the size of the connecting materials and collars shall be installed as appropriate for the existing materials. All installed materials shall be in accordance with the pipe and material specifications shown and specified with the new utility installations.

Provide materials suitable for the conditions in which they are being installed and used. Review installation requirements of the contract with material suppliers and incorporate any additional installation requirements necessary to meet the required use within the price bid for the work.

C Construction

Install the necessary connections, couplings, and piping to provide a temporary connection between the newly installed utility and the existing utility as required to allow for the phased construction. Intent is to provide a temporary connection to existing utilities for the staged construction to allow for continued service. Installation and removal of the temporary connection and ancillary items related to the connection are included within the bid item.

Remove or abandon all temporary piping and appurtenances as construction is completed. Unless otherwise shown or specified as being salvaged, the piping and appurtenances to be removed shall become the property of the contractor and shall be removed from the site for salvage or disposal.

D Measurement

The department will measure the Temporary Utility Connection by each unit, acceptably completed and approved by the City of Stoughton.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.992	Temporary Utility Connection	EACH

Payment is full compensation for furnishing and installing all materials and disposing of the removed items.

98. Sanitary Sewer Bypass Pumping, Item SPV.0060.993.

A Description

This special provision describes providing sanitary sewer bypass pumping for the reconstruction of the sanitary sewer along the project corridor. Bypass pumping will be between two existing sanitary manholes and approved by the City of Stoughton. Anticipated flow rates are expected under 600 GPM for the largest sewer bypass with many local sewers being less.

B Materials

Provide an adequate bypassing plan to provide for the planned utility reconstruction. Provide for the continuous flow of sewerage at all times. Submit to the owner detailed plans and descriptions outlining all provisions and precautions to be taken by the contractor regarding the handling of existing sewage flows. This plan must be specific and complete, including such items as schedules, locations, elevations, capacities of equipment, materials, and all other incidental items necessary and/or required to provide proper protection of the facilities, including protection of the access and bypass pumping locations from damage because of the discharge flows and compliance with the requirements specified in these contract documents. No work shall begin until all provisions and requirements have been reviewed by the owner. Selection of pumping equipment, pipe size, pipe support, and appurtenances shall be the responsibility of the contractor and subject to approval by the engineer.

C Construction

Where required by sewage flows or inability to prevent debris from falling into the flow stream, bypass the sewage around the sewer sections or manholes as required to complete the Work. Provide uninterrupted sanitary sewer service during construction of the relayed sanitary sewer and associated structures.

Precautions shall be taken when bypass pumping is required to prevent the flooding of nearby property.

Under no circumstances will the diversion or dumping of raw sewage be allowed onto the streets, adjacent lawns, storm sewers or surrounding areas. If any such spillage should occur, all construction operations shall cease and cleanup shall commence immediately and be completed to the satisfaction of the engineer prior to the resumption of any construction operations.

The bypass operation plan shall be provided as a submittal to review prior to the work. Bypass pumping shall mean the use of pumps, tanks, hoses, and other necessary equipment to cause uninterrupted flow of sewage around the section or reach in which the work is being accomplished.

All discharge pipes shall be hydrostatically tested prior to being placed into service.

Redundant pumps are required for all bypass pumping set ups.

Pumps shall be continuous self-priming and capable of running dry unattended.

At each suction location, provide a float operated high water alarm at an elevation approved by the engineer. In no case shall the high water elevation be set higher than 1 foot above the top of the pipe at the suction location. High water float shall trip visual, and telephone alarms. Telephone alarm shall call at least one phone number that will be answered 24 hours a day by a responsible person. Any issues or failures with the bypass pumping system must be fixed within one hour.

All pumps shall be started at least once per day to ensure proper operation and reliability. Any pump that does not start or is found to be inoperable shall be serviced or replaced immediately.

Size all hoses and pumps to be of sufficient capacity to handle the existing sewage flow, plus additional flow that may occur during wet weather periods and during periods of high runoff. All equipment used in bypass pumping shall be operated and maintained in proper running condition at all times.

All hose connections shall be watertight and no leakage shall be allowed to the surface. Pumping system hoses and appurtenances shall be tested prior to use in the sewer system to provide watertightness.

At the end of each working day, the reach or section being bypassed shall be placed in service and the bypass plug removed to the extent possible. Items necessary for any temporary connection are incidental to this bid item.

The pumps shall be specifically designed for sewage, capable of passing 3-inch solids.

Satisfactorily demonstrate to owner that the bypass system works for at least the diurnal flow pattern before beginning any work.

D Measurement

The department will measure the Sanitary Sewer Bypass Pumping by the completion of this item per Each completed and approved by the City of Stoughton, and acceptably removed in accordance with the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.993	Sanitary Sewer Bypass Pumping	EACH

Payment is full compensation for furnishing and installing all materials required to complete the sanitary sewer bypass pumping included in the contract work and removal of the bypassing operations once completed.

99. Temporary Water Service, Item SPV.0060.994.

A Description

This special provision describes providing a temporary water service for all affected properties during the project in locations with proposed water main and service replacements and the removal of the temporary water service once construction is completed. Anticipated temporary water service is anticipated beginning near South Harrison Street to Main Street and may be completed in stages within this corridor.

B Materials

Furnish materials, tools, and equipment to provide the temporary water service from the existing water while the new water main is installed and tested and services reconnected. Temporary water shall be coordinated with the planned water main installation and be minimized in duration to the extent possible.

All temporary service piping shall be NSF 61 approved material and be in accordance with the following NR 810 code requirements:

- Water conduits used for the temporary supply of water because of water main replacement shall be of materials approved either by Ch. SPS 382 as water service or private water main materials or by Ch. NR 811 as water main materials. Piping materials may be reused but may not have been previously used for purposes other than providing potable water. The lines shall be disinfected in accordance with AWWA Standard C651-05.

C Construction

Notify the owner and engineer and coordinate with affected residents as necessary of planned water interruptions. Notify the owner and engineer of temporary water plans prior to implementation.

All temporary service piping shall be in accordance with the following NR 810 code requirements:

- The connection to a hydrant for purposes other than firefighting shall meet the requirements in s. SPS 382.41. History: CR 09-073: cr. Register November 2010 No. 659, eff. 12-1-10; correction in (1) and (4) made under s. 13.92 (4) (b) 7., Stats., Register January 2012 No. 673.
- A single safe water sample for each setup of temporary water service piping must be taken by the Contractor and results verified by the Owner and Engineer prior to connecting to any water services.

Install the necessary connections, couplings, and piping to provide a temporary water service to the existing properties where the water main and service connections are being replaced. Intent is to provide the properties with continued water service as the contractor replaces the water main and service connections within the project. Installation and removal of the temporary water service connections and ancillary items related to the connection are included within the bid item.

Remove all temporary piping and appurtenances as construction is completed. The piping and appurtenances to be removed shall become the property of the contractor and shall be removed from the site for salvage or disposal.

D Measurement

The department will measure the Temporary Water Service by the completion of this item per Each completed and approved by the City of Stoughton, and acceptably removed in accordance with the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.994	Temporary Water Service	EACH

Payment is full compensation for furnishing and installing all materials required to complete the temporary water service connections included in the contract work and disposal of the removed items.

100. Native Pollinator Seeding Mixture No. 95A, Item SPV.0085.01.

A Description

This special provision describes preparing seed beds and furnishing and sowing the required seed on areas identified in the plan set.

Conform to standard spec 630 except as modified in this special provision.

B Materials

Conform to standard spec 630.2 and follow guidance for seed mixture 70/70a. Use Table 1 for seed mixture 95A composition.

PLS for seeding mixture 95A must be packaged separately by species and clearly labeled with the vendor's name, species common and botanical names, gross weight, percent PLS, year of harvest and any specialized treatments that have been applied to ensure or enhance germination. The Project Engineer must approve any other packaging procedure.

Table 1 – Native Pollinator Seed mix 95A

Nomenclature			Seed Metrics				
Scientific Name	Common Name	Purity & Germination minimum %	Oz/Acre	% Mix by Oz/Acre	lbs/Acre	lbs/1,000 square feet	Seeds/oz
Grasses, Sedges, Rushes							
Andropogon gerardii	Big Bluestem	PLS	6.00	6.70	0.38	0.009	10,000

Bromus ciliatus	Fringed Brome	PLS	2.00	2.23	0.13	0.003	10,000
Calamagrostis canadensis	Blue Joint Grass	PLS	0.50	0.56	0.03	0.001	280,000
Carex bebbii	Bebb's Oval Sedge	PLS	2.00	2.23	0.13	0.003	34,000
Carex stipata	Common Fox Sedge	PLS	1.00	1.12	0.06	0.001	34,000
Carex vulpinoidea	Brown Fox Sedge	PLS	4.00	4.47	0.25	0.006	100,000
Elymus canadensis	Canada Wild Rye	PLS	8.00	8.94	0.50	0.011	5,200
Elymus virginicus	Virginia Wild Rye	PLS	32.00	35.75	2.00	0.046	4,200
Juncus dudleyi	Dudley's Rush	PLS	0.50	0.56	0.03	0.001	3,200,000
Muhlenbergia mexicana	Leafy Satin Grass	PLS	1.00	1.12	0.06	0.001	175,000
Panicum virgatum	Switch Grass	PLS	2.00	2.23	0.13	0.003	14,000
Poa palustris	Fowl Meadow Grass	PLS	0.50	0.56	0.03	0.001	130,000
Scirpus atrovirens	Dark-green Bulrush	PLS	1.00	1.12	0.06	0.001	460,000
Scirpus cyperinus	Wool Grass	PLS	0.20	0.22	0.01	0.000	1,700,000
Spartina pectinata	Prairie Cord Grass	PLS	3.00	3.35	0.19	0.004	6,600
Alternate Grasses, Sedges, Rushes [3]							
Carex bicknellii	Bicknell's Oval Sedge	PLS					17,000
Carex scoparia	Lance-fruited Oval Sedge	PLS					84,000
Glyceria striata	Fowl Manna Grass	PLS					90,000
Juncus nodosus	Knotted Rush	PLS					1,851,000
Juncus torreyi	Torrey's Rush	PLS					1,600,000
Forbs							

Asclepias incarnata	Swamp Milkweed	PLS	2.00	2.23	0.13	0.003	4,800
Asclepias syriaca	Common Milkweed	PLS	1.00	1.12	0.06	0.001	4,000
Eupatorium perfoliatum	Boneset	PLS	1.50	1.68	0.09	0.002	160,000
Euthamia graminifolia	Grass-leaved Goldenrod	PLS	0.30	0.34	0.02	0.000	350,000
Eutrochium maculatum	Joe Pye Weed	PLS	2.00	2.23	0.13	0.003	95,000
Helenium autumnale	Sneezeweed	PLS	1.50	1.68	0.09	0.002	130,000
Helianthus grosseserratus	Saw-tooth Sunflower	PLS	1.00	1.12	0.06	0.001	15,000
Heliopsis helianthoides	False Sunflower	PLS	1.50	1.68	0.09	0.002	6,300
Hypericum ascyron ssp. pyramidatum	Great St. John's Wort	PLS	0.50	0.56	0.03	0.001	190,000
Lobelia siphilitica	Great Blue Lobelia	PLS	0.50	0.56	0.03	0.001	500,000
Monarda fistulosa	Wild Bergamot	PLS	1.25	1.40	0.08	0.002	70,000
Pycnanthemum virginianum	Mountain Mint	PLS	0.75	0.84	0.05	0.001	220,000
Ratibida pinnata	Yellow Coneflower	PLS	0.50	0.56	0.03	0.001	30,000
Rudbeckia hirta	Black-eyed Susan	PLS	2.00	2.23	0.13	0.003	92,000
Rudbeckia subtomentosa	Sweet Black-eyed Susan	PLS	1.00	1.12	0.06	0.001	43,000
Solidago riddellii	Riddell's Goldenrod	PLS	1.00	1.12	0.06	0.001	93,000
Symphyotrichum lanceolatum	Panicled Aster	PLS	0.50	0.56	0.03	0.001	156,000
Symphyotrichum novae-angliae	New England Aster	PLS	1.00	1.12	0.06	0.001	66,000
Verbena hastata	Blue Vervain	PLS	3.50	3.91	0.22	0.005	93,000
Zizia aurea	Golden Alexanders	PLS	2.50	2.79	0.16	0.004	11,000
Alternate Forbs [3]							
Anemone canadensis	Canada Anemone	PLS					8,000
Iris virginica	Southern Blue Flag	PLS					1,000

Mimulus ringens	Monkey Flower	PLS					2,300,000
Physostegia virginiana	Obedient Plant	PLS					11,000
Silphium perfoliatum	Cup Plant	PLS					1,400
Solidago gigantea	Late Goldenrod	PLS					250,000
Thalictrum dasycarpum	Purple Meadow Rue	PLS					11,000
Vernonia fasciculata	Common Ironweed	PLS					24,000
Veronicastrum virginicum	Culver's Root	PLS					800,000

Diversity and Density Metrics

Plant Type	Species Richness	Purity & Germination minimum %	Total Oz/Acre	% Mix by Oz/Acre	lbs/Acre	lbs/1,000 square feet	
Grasses, Sedges, and Rushes	15	PLS	63.70	71.17	3.98	0.091	
Forbs	20	PLS	25.80	28.83	1.61	0.037	
Totals	**35**	**PLS**	**89.50**	**100.00**	**5.59**	**0.128**	

[1]Seed mix is designed for 1.0 acre.

[2]Alternate species are provided below each section (graminoids and forbs). Wisconsin blooming periods are defined as Spring (April-May), Summer (June-August), and Fall (September-October).

[3]The contractor may, if the engineer approves, substitute an alternate for a required species that is not available using the same percentage as specified for the required species. Use a different alternate for each unavailable required species. Provide documentation showing that a required forb is not available before using an alternate.

If seeding bare soil with native seed mixture 95A, include the nurse crop as follows. Do not seed native seed mixtures between June 15 and October 15, unless the engineer allows.

Install nurse crop with permanent native seed mix. Select appropriate seed combinations from table below based on timing of installation. Annual rye will be installed with common oats or winter wheat. Nurse crop is not suitable for areas with standing water.

Table 2 – Nurse Crop

Scientific Name	Common Name	Installation Rate	
		(lbs/acre)	(lbs/1000 sq. ft.)
Spring seeding before June 15			
Avena sativa	Common Oats	35	0.8
Lolium multiflorum	Annual Rye[1]	5	0.12
When the engineer allows between June 15 and October 15			
Avena sativa	Common Oats	35	0.8
Lolium multiflorum	Annual Rye[1]	5	0.12
Fall seeding after October 15 and dorment seeding			
Triticum aestivum	Winter Wheat[2]	45	1
Lolium multiflorum	Annual Rye[1]	5	0.12

[1]Spring (April-May) and late summer (August-early September) preferred for annual rye but may be established in summer or a dormant seeding as seed will overwinter.

[2]August-September preferred for winter wheat but may be used as dormant seeding as seed will overwinter and germinate in the spring.

C Construction

Conform to standard spec 630.3 following guidance for seed mixture 70/70a.

Seeding will not be allowed between June 15 and October 15, unless the engineer allows.

Sow seeds at a rate of 0.128 pounds per 1000 square feet or 5.59 pounds per acre.

D Measurement

The department will measure the Seeding bid items by the equivalent pound acceptably completed, measured based on net weights of seed shipments or weighed on department-approved scales the contractor furnishes. The department will deduct quantities wasted or not actually incorporated in the work according to the contract. The department will determine the equivalent pounds of seed furnished and applied by dividing the actual pounds of seed applied by the sum of the unadjusted and adjusted percentages, determined as specified in 630.3.5, of the various species in the seed mixture sown.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.01	Native Pollinator Seeding Mixture No. 95A	LB

Payment is full compensation for providing, handling, and storing seed; for providing the required culture and inoculating seed as specified; and for preparing the seed bed, sowing, covering, and firming the seed.

101. Shorten Hydrant Lead, Item SPV.0060.97; Hydrant Relocation, Item SPV.0060.98; Relocate Curb Stop 1-Inch, Item SPV.0060.99.

A Description

This special provision describes relocating or adjusting existing hydrants and curb stops necessary due to conflicts shown in the plan.

B Materials

Furnish tools and equipment to remove, relocate, cap, and abandon the existing hydrants and curb stops according to the City of Stoughton and the Standard Specifications for Sewer and Water Construction in Wisconsin.

Furnish materials in conformance to the size and type shown in the plan or called for in the specifications.

Furnish materials suitable for the conditions in which they are being installed and used. Review installation requirements of the contract with material suppliers and incorporate any additional installation requirements necessary to meet the required use within the price bid for the work.

C Construction

Shorten Hydrant Lead – Remove the existing hydrant and valve to the extent necessary for the hydrant lead to be cut and valve and hydrant salvaged and reinstalled to avoid the conflict shown in the plans. All work associated with removal and salvaging of the existing hydrant and valve, any temporary caps, cutting of the hydrant lead, and reinstallation of the salvaged hydrant and valve to a complete system are inclusive to the bid item. Verify the hydrant and valve are operational and accessible to the City prior to approval.

Hydrant Relocation –Remove the existing hydrant and valve and relocate the hydrant as shown on the contract documents. The hydrant and valve shall be salvaged by the contractor to be replaced in the required location. Capping of the existing hydrant tee shall be inclusive to the hydrant relocation. The lineal footage of pipe installed will be paid by the unit prices for the pipe itself. The installation of the salvaged hydrant and valve are inclusive to this bid item. A new tee as required will be paid at the contract unit price for the tee installation. The Contractor shall be responsible for the removal of the existing hydrant and valve and capping of the existing main as necessary and the reinstallation of the salvaged hydrant and valve for a complete system in the location shown on the contract documents. Verify the hydrant and valve are operational and accessible to the City prior to approval.

Relocate Curb Stop – Remove the existing curb stop that is shown to be located within the new curb line or at the edge of pavement and relocate the curb stop to the terrace location immediately adjacent to the existing location. Remove the existing curb stop and splice any extensions or remove additional lengths in order to make a watertight connection through the curb stop connection. Set the curb stop at the temporary pavement grade elevations initially where required in the contract documents followed by the final grade elevations according to the contract drawings. Verify the curb stop is operational to the City prior to approval. Multiple adjustments of the curb stops may be necessary to accommodate the project staging and shall be inclusive to this bid item.

Remove or abandon all existing piping and appurtenances as noted in the plans. Unless otherwise shown or specified as being salvaged, the piping and appurtenances to be removed shall become the property of the contractor and shall be removed from the site for salvage or disposal.

D Measurement

The department will measure Shorten Hydrant Lead, Hydrant Relocation, and Relocate Curb Stop 1-Inch as each individual unit, approved by the City of Stoughton, and acceptably constructed in accordance with the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.97	Shorten Hydrant Lead	EACH
SPV.0060.98	Hydrant Relocation	EACH
SPV.0060.99	Relocate Curb Stop 1-Inch	EACH

Payment is full compensation for furnishing and installing all materials, and removing and disposing of the removed materials.

102. Pipe Underdrain (6-Inch) with Geotextile Fabric and Aggregate, Item SPV.0090.01.

A Description

This special provision describes providing and placing pipe underdrain, geotextile fabric, and aggregate as shown on the plans and hereinafter provided. The work under this item shall be in accordance with the standard specifications for each component.

B Materials

B.1 Pipe

Provide Pipe Underdrain 6-Inch conforming to the pertinent requirements of section 612.2 of the standard specifications.

B.2 Geotextile Fabric

Provide Geotextile Fabric Type DF Schedule B conforming to the pertinent requirements of section 645.2.1 and 645.2.4 of the standard specifications.

B.3 Aggregate

Provide Base Aggregate Open Graded conforming to section 310.2 of the of the standard specifications.

C Construction

Construct the Pipe Underdrain (6-Inch) with Geotextile Fabric and Aggregate as the plans show and conforming to standard spec 612.3.1, 612.3.3, 612.3.5, and 645.3.4.

D Measurement

The department will measure Pipe Underdrain (6-Inch) with Geotextile Fabric and Aggregate 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.0090.01	Pipe Underdrain (6-Inch) with Geotextile Fabric and Aggregate	LF

Payment is full compensation for providing and placing all materials, including pipe underdrain, geotextile fabric, aggregate, backfill, connections, fittings, and caps or plugs; and for all excavating, recompacting, disposing of surplus material, and restoring the work site.

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103. Temporary Storm Sewer Pipe Class III-A 12-Inch, Item SPV.0090.02.

A Description

This special provision describes providing, maintaining, and removing temporary storm sewer, in accordance to section 608 of the standard specifications, as the plans show, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to section 608.2 of the standard specifications. Salvaged materials may be used if approved by the engineer.

C Construction

Construct temporary storm sewer in accordance to section 608.3 of the standard specifications and as the plans show.

Connect the temporary storm sewer pipe to new or existing pipes or drainage structures with an appropriate coupling, concrete collar, or other means approved by the engineer. Any additional materials required to connect the temporary storm sewer are considered incidental to this bid item.

After the temporary storm sewer is removed from service, remove the pipe to the maximum possible extent as approved by the engineer. Seal the remaining pipe in conformance to section 204.3.3 of the standard specifications.

D Measurement

The department will measure Temporary Storm Sewer Pipe Class III-A 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.0090.02	Temporary Storm Sewer Pipe Class III-A 12-Inch	LF

Payment is full compensation for providing storm sewer; for joint seals, wraps and couplers; for concrete collars not required under 520.3.1(5) or 608.3.3(10); for excavating, except for rock excavation; for providing and removing sheeting and shoring; for constructing the foundation; for backfilling; for cleaning out; and for breaking down, removing and sealing the pipe.

104. Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch, Item SPV.0090.51; Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 68x98-Inch, Item SPV.0090.52.

A Description

This special provision describes providing reinforced concrete culvert pipe.

B Materials

Furnish reinforced concrete culvert pipe designed for D0.01 =2,000 and Dult=3,000 (Class IV equivalent) and according to standard spec 522.2. Provide documentation stamped by a professional engineer, registered in the State of Wisconsin, certifying that the pipes meets Class IV equivalent standards.

C Construction

Construct culvert pipes in accordance to section 522.3 of the standard specifications and as the plans show.

D Measurement

The department will measure Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV (size) by the linear foot acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.51	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch	LF
SPV.0090.52	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 68x98-Inch	LF

Payment is full compensation for providing all materials; for all excavating except for rock; for sheeting and shoring; for laying pipe and sealing joints; for backfilling; for removing sheeting and shoring; and for cleaning out and restoring the work site.

105. 6-Inch D.I. Water Main, Item SPV.0090.70; 8-Inch D.I. Water Main, Item SPV.0090.71; Trench Backfill – Water Main, Item SPV.0090.77;

1-Inch Copper Water Service, Item SPV.0090.78;
18-Inch PVC Sanitary Sewer, Item SPV.0090.79;
8-Inch PVC Sanitary Sewer, Item SPV.0090.80;
Trench Backfill – Sanitary Sewer, Item SPV.0090.84;
4-Inch PVC Sanitary Sewer, Item SPV.0090.85;
10-Inch D.I. Water Main, Item SPV.0090.86;
10-Inch PVC Sanitary Sewer, Item SPV.0090.87.

A Description

This special provision describes furnishing and installing water main, sanitary sewer and appurtenances as shown in the plans and hereinafter provided including all underground piping, valves, and appurtenances of every description. Includes all excavation, dewatering, and pipe bedding for all work under this section unless otherwise noted. All underground piping connections to all equipment, whether furnished under this section or not, are included.

B Materials

B.1 Applicable Specifications

Provide water system and sanitary sewer system materials that are in conformance to the City of Stoughton. All applicable provisions of Division 01 shall govern work in this section.

A. All materials used in the manufacture, assembly, and painting of piping and valves in contact with water shall be compatible with potable water supplies and in contact with chemical feed systems shall be compatible with the chemicals being used. All glues, solvents, solders, etc., shall likewise be compatible. For instance, no lead-base solders shall be used. All materials in contact with water to be used for potable water supplies shall be National Sanitation Foundation (NSF)-approved.

B. Size and Type:

1. All materials shall conform to the size and type shown on the drawings or called for in the specifications.

2. In joining two dissimilar types of pipe, standard fittings shall be used when available. In the event standard fittings are not available, the method of joining shall be standard selected by the contractor and submitted for review by the engineer.

C. Materials provided shall be suitable for the conditions in which they are being installed and used. Review installation requirements of the contract with material suppliers and incorporate any additional installation requirements necessary to meet the required use within the price bid for the Work.

D. All pipe and materials used in performance of the Work shall be clearly marked as to strength, class, or grade. Pipe and materials not so marked shall be subject to rejection.

E. When requested by engineer, material suppliers shall furnish certificates of compliance indicating that all tests required by various Standards have been conducted and that the text results comply with the Standards.

F. Piping appurtenances shall be made of the materials specified. All appurtenances not designated as to type shall be selected by contractor and submitted for review by engineer.

G. Ductile Iron Piping and Fittings:

1. Unless otherwise shown or specified, all water main piping 3 inches in diameter or larger shall be ductile iron conforming to AWWA C151/A21.51 with mechanical joints or push-on joints. Unless otherwise shown or specified, all piping shall be minimum Special Thickness Class 52 with a water hammer allowance of 100 psi. Additional pipe wall thickness shall be furnished as required by AWWA C150 for buried piping with the depth of cover as shown on the Drawings when using laying condition 4 of AWWA C600 or the Class C Bedding Detail as shown on Drawing 01-975-43A.

2. Each pipe and fitting shall have the weight, class or nominal thickness, country where cast, casting period, manufacturer's mark, the year in which the pipe was produced, and the letters DI or DUCTILE cast or stamped thereon. Improper or incomplete marking will be cause for rejection of the pipe or fitting.

3. Furnish certification data representing each class of pipe or fitting furnished. The certification report shall clearly state that all pipe and fittings furnished meet the appropriate AWWA specification. Ductile iron pipe shall consist of pipe centrifugally cast in metal or sand-lined molds. Pipe wall shall be homogeneous from inside to outside and shall be completely free of laminations, blisters, or other imperfections. Defects may be removed at the factory only.

4. Except as otherwise specified, underground pipe shall have mechanical joints or push-on joints conforming to AWWA C110 and C111, as well as AWWA C153 (compact), with vulcanized styrene butadiene rubber gaskets conforming to AWWA C111. Gaskets that include metal locking segments vulcanized into the gasket to grip the pipe and provide joint restraint are not acceptable. Bolts on mechanical joints shall be high-strength low-alloy steel, "blue bolts" with fluoropolymer coating conforming to AWWA C111. Certificate to that effect shall be provided. Provide continuous continuity straps of cable across all fittings and valves.

5. Restrained joints shall be provided in accordance with Section C. Mechanical joints shall be restrained with MEGALUG Series 1100 or 1100 SD, by EBAA Iron Sales, Inc., UNIFLANGE Series 1400 by Ford Meter Box Co. Inc., or equal, restraint. Push-on joints for ductile iron piping shall be restrained with MEGALUG Series 1700 or 1100 HD, by EBAA Iron Sales, Inc., UNIFLANGE Series 1450 by Ford Meter Box Co., Inc., Flex-Ring or Lok-Ring by American Cast Iron Pipe Company, TR Flex by U.S. Pipe Company, TR Flex by McWane, or equal.

   a. Pipe restraint fittings shall be provided as follows:

      (1) For ductile iron pipe with ductile iron mechanical joints MEGALUG Series 1100 or 1100SD by EBAA Iron Sales, Inc.; Series D SLDE or SSLD by Sigma; Series 3000 or 3000S by Star Pipe Products; or equal.

      (2) For ductile iron pipe with ductile iron mechanical joints MEGALUG Series 1100HD or 1700 by EBAA Iron Sales, Inc., Series SLDEH or SSLDH by Sigma; Series 3100P or 3100S by Star Pipe Products; Flex Ring or Lok Ring by American Cast Iron Pipe Company; TR Flex by U.S. Pipe Company; or equal.

   b. Gland body, wedges, and wedge actuating components shall be ductile iron conforming to ASTM A536 Grade 65 45 12. Bolts and tie rods shall be high strength low alloy steel conforming to AWWA C111.

   c. Gaskets that include metal locking segments vulcanized into the gasket to grip the pipe to provide joint restraint are not acceptable.

H. Solid Wall PVC:

1. Polyvinyl chloride (PVC) pipe shall meet the requirements of ASTM D3034 for pipe sizes 4 inches through 15 inches and ASTM F679 for pipe sizes 18 inches through 60 inches.

2. PVC materials for ASTM D3034 pipe shall have cell classification 12454 or 12364 as defined in ASTM D1784 with minimum modulus of elasticity of 400,000 psi. Pipe stiffness shall be minimum 46 psi when tested in accordance with ASTM D2412. Pipe shall have a maximum standard dimension ratio (SDR) of 35.

3. PVC material for ASTM F679 pipe shall have cell classification 12454 or 12364 as defined in ASTM D1784 with a minimum modulus of elasticity of 500,000 psi. Pipe stiffness shall be a minimum 115 psi when tested in accordance with ASTM D2412.

4. Pipe and fittings shall be the product of one manufacturer, and the manufacturer shall have experience and records substantiating acceptable performance of the pipe and

fittings to be furnished. The minimum wall thickness of fittings shall be the same as the pipe to which it connects.

5. Acceptance of piping and fittings shall be subject to tests conducted in accordance with ASTM D3034 and/or ASTM F679.

6. Fittings such as saddles, elbows, tees, wyes, and others shall be of material and construction corresponding to and have a joint design compatible with the adjacent pipe. Approved adapters shall be provided for transitions to other types of pipe.

7. Joints shall be of the elastomeric type for pipes 4 inches or larger and elastomeric or solvent cement for pipes less than 4 inches.

8. Elastomeric joints shall be a bell and spigot joint conforming to ASTM D3212 sealed by a rubber gasket conforming to ASTM F477 so that the assembly will remain watertight under all conditions of service, including the movements resulting from the expansion, contraction, settlement, and deformation of the pipe. Bells shall be formed integrally with the pipe and shall contain a factory-installed positively restrained gasket.

9. Solvent cement joints shall be assembled using solvent cement obtained from the pipe manufacturer, which conforms to the requirements of ASTM D2564.

10. The assembled joint shall pass the performance tests as required in ASTM D3212.

I. Gravity Sanitary Sewer Service Branches and Laterals:

J. Branches (tees and wyes) shall be of the same material as the main except for reinforced concrete pipe used for sanitary sewer. For reinforced concrete pipe, special branches shall be furnished and installed to accept the lateral. Such special branches are subject to review by the engineer.

K. If a different thermoplastic material is specified for laterals than for the main line, appropriate solvent welds, fittings, transition couplings, and other appurtenances shall be provided to effect a water tight seal.

L. Fittings for laterals shall be of the same material as the lateral pipe unless special fittings are needed for transition between material types or sizes or standard fittings are not manufactured.

M. Where the wye or tee branches and laterals are of dissimilar materials, provide a transition coupling for the connection.

N. All fittings used, including type of jointing, are subject to review by the ENGINEER.

O. Joint restraint is not required for gravity sewers or drains. Joint restraint shall be provided for any pipe requiring pressure testing.

P. Underground pipe shall have mechanical joint or push-on joint ductile iron fittings conforming to AWWA C110 and C111 or AWWA C153 compact fittings with a minimum rated working pressure of 150 psi. Gaskets for fittings shall be as specified for underground piping.

R. Unless otherwise specified, all exterior ductile iron piping and fittings shall be cement-mortar lined and asphaltic-coated inside. Cement-mortar lining shall be in accordance with AWWA C104. Unless otherwise specified, underground piping and fittings shall be shop primed or asphaltic-coated outside. Asphaltic coating shall conform to applicable standards herein for the pipe and fittings.

S. For potable water systems, the outside pipe coating shall comply with AWWA C151. Lining and coatings shall be suitable with potable water systems. The asphaltic coating shall be applied over the cement lining on the inside of the pipe and directly on the outside of the pipe. The coatings shall be smooth and impervious to water without any tendency to scale off.

T. All buried ductile iron piping and appurtenances shall be polyethylene encased in accordance with AWWA C105. Polyethylene encasement shall be Class C (carbon black) and shall be minimum 8 mil thickness. Tape for securing the film shall be a thermoplastic material with a pressure sensitive adhesive face capable of bonding to metal, asphaltic coating, and polyethylene. Tape shall have a minimum thickness of 8 mils and a minimum width of 1 inch. The Polyethylene film envelope shall be as free as is

commercially possible of gels, streaks, pinholes, particles of foreign matter, and undispersed raw materials. There shall be no other visible defect, such as holes, tears, blisters, or thinning out at folds.

U. Exterior Joints, Fittings, and Gaskets: Joints, fittings, and gaskets shall have the same rated working pressure of the pipe in which they are installed but no less than a minimum rated working pressure of 150 psi.

V. Piping needed for repair or reconstruction of existing utilities and appurtenances shall be of the same type and strength as the existing. The type of jointing used in repair and reconstruction shall be reviewed by engineer. Special fittings shall be furnished and installed as necessary for repair, reconstruction, or connection of existing facilities.

W. Tracer Wire:

1. Provide minimum 10-gauge solid insulated copper tracer wire with buried thermoplastic pressurized pipe. Wire shall be continuous, terminate, and be accessible at valve boxes, manholes, fire hydrants, or at test stations as specified below. Tracer wire shall be located 12 inches above the top of the pipe. Any splices in copper wire shall be made with a 3M DBR/Y-6 splice kit, or equal.

2. Tracer wire test stations shall be SnakePit magnetized tracer boxes by Copperhead Industries, or equal. Tracer box shall be corrosion-resistant brass wire lugs and wax pad to cover wire connection. Cover shall be color-coded according to APWA standards for fluid conveyed. Provide SnakePit Lite Duty Box in unpaved areas and Roadway Box in paved areas. Provide Rhino Triview Marker Posts, or equal, at all test stations. Provide custom decals to identify fluid in piping. The tracer wire shall be accessible at a minimum of every 500 feet along the pipeline and at horizontal bends in piping. Test stations shall be placed as required between manholes to comply with the minimum 500-foot tracer wire accessibility requirement.

3. Perform continuity testing of all tracer wire in the presence of the engineer.

X. Copper Water Tubing:

1. Water services shall be Type K soft annealed seamless copper tubing installed within trenches and shall conform to the Specifications of ASTM B88. All other copper tubing shall be Type K hard copper tubing conforming to ASTM B88.

2. Fittings shall be of the compression type. Unions shall be extra heavy three-part unions only. Joints shall not be used under floor slabs.

3. The name or trademark of the manufacturer and a mark indicating the type shall be permanently and plainly marked on the tubing.

4. Fittings for copper tubing shall be copper alloy meeting the requirements of AWWA C800-14. The maximum lead content shall be 0.25%. They shall have uniformity in wall thickness and strength and shall be free from any defect that may affect their serviceability.

5. Each fitting shall be permanently and plainly marked with the name or trademark of the manufacturer.

6. Shutoff valves shall be placed on each branch for all underground piping as shown on the drawings.

B.2 Shop Drawings

Prior to incorporating any materials or products into the work, submit to engineer product literature and catalog cuts of the materials to be supplied. Submit information in sufficient detail to readily determine if these materials are in conformance with the specifications.

C Construction

C.1 Applicable Specifications

Perform all water system construction in conformance to the City of Stoughton and the Standard Specifications for Sewer and Water Construction in Wisconsin.

C.2 Water Main

A. Utility lines shall be laid and installed to the lines and grades specified with valves, fittings, manholes, and other appurtenances at the specified locations; spigots centered in bells; and all manholes and riser pipes plumb. Water main shall be installed at the depth indicated. Gravity sewer mains and lateral shall maintain a minimum 6.5 feet of cover but shall be deep enough to provide service to buildings. Water main and other pressure mains shall be installed to within (plus or minus) 0.1 feet of designed grades. Sanitary and laterals shall be installed to within (plus or minus) 0.03 feet of designed grades. Service lines shown on the Drawings are approximate.

B. Deviations Occasioned by Underground Facilities: Wherever significant obstructions not shown on the Drawings are encountered during the progress of the Work, CONTRACTOR shall proceed in accordance with the General Conditions to notify owners and protect the facilities. Existing items unnecessarily damaged during the performance of the Work shall be repaired and replaced at the expense of CONTRACTOR.

C. Prior to commencing pipe laying, notify the of the intended date for starting work. The engineer may request at contractor's expense the removal and relaying of pipe which was installed prior to notification of the engineer.

1. Proper implements, tools, and facilities shall be provided and used by contractor for the safe and convenient prosecution of the Work. All pipe, fittings, and appurtenances shall be carefully lowered into the trench piece by piece with a crane, rope, or other suitable tools or equipment, in such manner as to prevent damage to materials. Under no circumstance shall pipe be dropped or rolled into the trench.

2. Materials shall be as shown on the Drawings or as specified herein.

D. Material Inspection: Inspect the pipe, fittings, and appurtenances for defects when delivered to the jobsite and prior to lowering into the trench. Defective material shall be removed from the jobsite. All material shall be clean and free of deleterious substances prior to use in the work.

E. Except where noted or specified, all ductile iron underground piping shall be laid in accordance with AWWA C600 or AWWA C605 with the conditions that (a) blocking shall not be used to support pipe and (b) all bends and fittings shall be restrained as specified below, and pipe joints shall be restrained in all directions from all bends and fittings to the length as specified below.

F. Pipe Length:

1. The minimum length of pipe to be restrained shall be as shown in the following table.

2. This table assumes horizontal orientation of fittings, 150 psi test pressure plus a 100 psi water hammer allowance, ductile iron pipe, and a 3-foot bury. Lengths shall be adjusted for other conditions and fittings. For other fittings and for more specific requirements, see the Drawings:

REQUIRED LENGTH OF RESTRAINED PIPE BEYOND FITTING IN FEET

FITTING	MINIMUM LENGTH – FT
90 Degree Bend (≤ 6 inches)	36
90 Degree Bend (8 inches to 10 inches)	54
90 Degree Bend (12 inches to 14 inches)	72
90 Degree Bend (16 inches)	84
45 Degree Bend (≤ 8 inches)	18
45 Degree Bend (10 inches to 16 inches)	36
22 1/2 Degree Bend (≤ 16 inches)	18
11 1/4 Degree Bend (≤ 16 inches)	9
Fire Hydrant Leads	All Joints
End of Line Tees (≤ 4 inches)*	18 (Along Branch)
End of Line Tees (6 inches to 8 inches)*	36 (Along Branch)
End of Line Tees (10 inches to 12 inches)*	54 (Along Branch
End of Line Tees (14 inches to 16 inches)	72 (Along Branch)

*Restrained run length on tees assumed 18 feet on each side of fitting

G. Water main shall be installed in accordance with AWWA C600 for iron pipe. All plugs, caps, tees, hydrants, bends, and other fittings for water mains and force mains shall be provided with restrained joints.

H. PVC sewer shall be installed in accordance with ASTM D2321. Except where noted or specified, PVC or other thermoplastic pressure piping shall be installed in accordance with ASTM D2774.

· Lay all gravity pipe to the line and grade shown in the plans with bell ends uphill wherever possible. If not possible, lay pipe to the line and grade shown in the plans with bell ends in the direction of laying. Water piping shall have a minimum of 6 ½ feet of cover.

J. Any pipe or fittings cracked in cutting or handling or otherwise not free from defects shall not be used. Pipe must be kept clean of mortar, cement, clay, sand, or other material. When PVC piping is installed during hot weather, it shall be laid in the trench with slack or permitted to cool to ground temperature before it is cut to length for making final connections. PVC expansion joints shall be provided where needed.

· At times when pipe laying is not in progress, the open ends of pipe shall be closed with plugs to prevent the entry of foreign material. Acceptable plugs include Foreman Nite Caps by APS, mechanical joint cap or plug, bladder plug, or test plug. All foreign material shall be removed from the pipe prior to acceptance.

L. The locations and elevations of existing piping and manholes are approximate. Where necessary, existing piping shall be exposed by the contractor to confirm location and elevation before installing new piping. Any changes in pipe location or elevation shall be approved by OWNER.

M. General Excavation:

1. Pipe Laying

a. All pipe shall be laid accurately to the line and grade as designated. Preparatory to making pipe joints, all surfaces of the portions of the pipe to be joined or of the factor-made jointing material shall be clean and dry. Lubricants, primers, adhesives, and other joint material shall be used and installed as recommended by the pipe or joint manufacturer's specifications. The jointing materials or factory fabricated joints shall then be placed, fitted, joined, and adjusted in such a workmanlike manner as to obtain the degree of watertightness specified. Pertinent specifications from the joint and pipe manufacturer which outline procedures to be followed in making the joint shall be furnished to ENGINEER.

b. Wyes, tees, and special fittings shall be installed as called for on the Drawings, or as requested by the engineer. Wyes, tees, and special fittings, shall, in general, be jointed with the same type of joint as used in the pipe.

c. In joining two dissimilar types of pipe, manufactured adapters and fittings shall be used. Adapters and fittings shall be configured to maintain invert elevations at same level.

d. Joint deflections shall not exceed the limits established by the pipe manufacturer for the pipe and joint being used.

e. Joints that are damaged because of carelessness, improper handling, or failure to prevent imperfections in manufacture shall be subject to rejection and gaskets shall be subject to rejection whenever they show surface cracking, tears, or splice separation.

f. After placing a length of pipe in the trench, the spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade. The pipe shall be secured in place with specified backfill material tamped around it except at the bells.

g. Pipe shall be brought home by using a cross member and levers or jacks. It will not be permissible to push pipe home with motor powered excavation equipment.

2. Sewer Service Branch and Lateral Installation:

a. Furnish and install sanitary sewer branches, laterals and leads as shown on the Drawings or requested by the engineer. Under normal circumstances, service laterals will be installed within the right-of-way or easement to serve all existing buildings and all platted lots. In certain cases, only wye or tee branches will be installed to vacant lots. Service laterals shall consist of a branch fitting at the main an extension of the specified lateral pipe to the end of lateral as called for and requested. All necessary fittings shall be furnished and installed to complete the installation.

b. Wye or Tee branches: Wherever shown on the Drawings or requested by the engineer, wye or tee branches shall be provided for use in making sanitary sewer service connections. Unless specified otherwise on the Drawings, wye or tee branches for sanitary sewer service lateral connections shall be 4-inch diameter or 6 inches to match existing.

c. Sanitary sewer service branches shall be turned so that the branch is at an angle of 30 degrees or 45 degrees from the horizontal.

d. Installation and Testing Requirements: Except for those branches that are to be used for extending sanitary sewer service laterals, wye and tee branches shall be closed with airtight stoppers blocked to withstand air test pressures.

e. The ends of all laterals shall be plugged and blocked to resist air test pressures. All plugs shall be manufactured to fit the pipe used and shall be watertight.

f. Unless otherwise provided for in the Drawings, each service lateral shall have a tracer wire installed from the main to the property line or the location of the connection to the existing service, whichever is greater or applicable. The tracer wire shall be 10-gauge solid copper with no splices. The wire shall be secured to the pipe with duct tape at a minimum of 3-foot intervals. The ends of the tracer wire shall be brought to the surface and stored in an access terminal box, DWS-Tracer Wire Access Box, or equal, at a location selected by OWNER. Eighteen inches of additional wire length shall be coiled at the location of the terminal box. Confirm the method of installation is compatible with OWNER's means of detecting the location of the service lateral. Each tracer wire shall be tested by the contractor to confirm it accurately provides the location and depth of the sewer lateral.

g. A complete and accurate tabulation of length, depth, and location of all branches, risers, and laterals shall be kept by contractor on cards available from the engineer. Measurements shall be made from the nearest downstream manhole. Lateral installation to meet these Standard Specifications and field conditions are the responsibility of the contractor. Problems occurring because of failure to provide proper installation or proper records shall be corrected by the contractor at its expense.

h. No installed lateral shall be backfilled until the engineer has been notified that the lateral is complete and reasonable time is allowed for observation of the Work.

i. Marker balls shall be installed with all new sanitary sewer laterals. At a minimum, marker balls shall be installed above the wye at the main and near the end of the lateral. Marker balls shall also be installed at all intermediate bends in the sewer lateral. Marker balls shall be 3M ScotchMark Electronic Ball Marker Model #1404-XR. Marker balls shall be installed as recommended by the manufacturer

3. Water Service Lateral Installation

a. Water service laterals requiring reconstruction and new service laterals shall be installed in accordance with AWWA C600. Perform all excavation, backfill, and other work necessary for a complete installation. The service tubing shall be continuous and shall be placed at a minimum depth of 6.5 feet. Each service shall include a corporation stop at the main, copper service tubing, curb stop, curb box, couplings, and all other appurtenances necessary for a complete installation. Where existing services in the street are being reconstructed, the new service shall be connected to the existing service at the property line unless otherwise shown or specified. Taps in the main shall be at an angle of 45 degrees above the horizontal.

b. City of Stoughton Utilities reserves the right to make taps and connections to the new mains prior to backfilling by the contractor. Delay backfilling until City of Stoughton Utilities has completed its Work.

c. All curb boxes on new services shall be marked by placing a 4-foot long 2 by 4 adjacent to it. The 2 by 4 shall project 1 foot above existing ground and shall be painted blue. All services shall be extended to the street property line, unless otherwise shown or specified.

C.3 Testing

A. Include the cost of all testing, cleaning, and disinfection in the price bid.

B. Work shall be tested as specified in this section. Unless indicated in writing before testing begins, tests shall be witnessed by the engineer and others as necessary. Test results shall be recorded, and reports or appropriate certificates shall be submitted to the engineer in triplicate.

C. New piping shall be tested. Prior to conducting the pressure test, backfill the trench for its full depth. All bends and special connections to the main shall be adequately blocked and tied prior to the test. Any damage caused to the main or its appurtenances during performance of these tests shall be corrected by the contractor at its expense. Should underground piping fail test, the contractor shall be responsible for removal and replacement of backfill, and relay new pipe if necessary, to repair the defective pipe. Under no circumstances shall defects be sealed from the interior of the pipe, and only where specifically allowed by the engineer, shall defects be sealed from the exterior of the pipe. Piping, interior or exposed, shall be subject to test before being covered with insulation or paint. Piping and appurtenances shall be watertight or airtight and free from visible leaks.

D. Piping shall be flushed or blown out after installation prior to testing. Provide all necessary piping connections, water, air, test pumping equipment, water meter, bulkheads, valves, pressure gauge and other equipment, materials, and facilities necessary to complete the specified tests. Provide all temporary sectionalizing devices and vents for testing.

E. Pressure Tests:

1. Pressure tests shall be performed as required by AWWA C600 and AWWA C605, unless otherwise noted herein.

2. When test medium for piping is water, all air shall be removed from piping by flushing, opening vents, loosening flanges, utilizing equipment vents and/or installation of corporations at high points in system. Test pumping equipment used shall be centrifugal pumps or other pumping equipment that will not place shock pressures on the main. Power plunger pumps will not be permitted for use on closed pipe systems. Pumps shall be disconnected during test periods. Presence or absence of air will be determined during pressurization of the piping system.

3. The test pressure in all lines shall be held for one hour during which time the leakage allowance shall not exceed that specified. In case repairs are required, the pressure test shall be repeated until the pipeline installation conforms to the specified requirements. Pumps, air compressors, instrumentation, and similar equipment shall not be subjected to the pressure tests.

4. During performance of the hydrostatic pressure test, water main shall be subjected to a minimum pressure of at least 50% above normal working pressure with a minimum pressure 125 psi. Force main shall be tested to 200% of normal operating pressure in the main, but to no more than the pressure rating of the pipe.

5. Keep a record of all tests performed. These records shall show the individual lengths of main tested and test results.

6. Where connections are made to existing mains, provide the necessary hydrostatic tests on all new mains installed. This may necessitate, but is not limited to, the installation of temporary valves and restraint to isolate the new system from the existing system. All materials, labor, and equipment necessary for this work shall be furnished by the contractor at its expense.

7. All testing of pipelines shall proceed concurrently with installation. The contractor is advised that it may be advantageous to conduct daily preliminary testing of its work.

8. Water from disinfection testing shall not be discharged to a stream, creek, river, storm sewer tributary thereto, or to a navigable water without first neutralizing the chlorine residual in the water and complying with local, state, and federal laws thereto.

9. Gauges used for testing shall have increments as follows:

a. Tests requiring a pressure of 10 psi or less shall use a testing gauge having increments of 0.10 psi or less.

b. Tests requiring a pressure of greater than 10 psi by less than or equal to 100 psi shall use a testing gauge having increments of 1 psi or less.

c. Tests requiring a pressure of greater than 100 psi shall use a testing gauge having increments of 2 psi or less.

F. Continuity Testing: Provide all equipment, labor, and materials necessary to perform continuity testing of all ductile iron water mains installed. Tests shall be performed using an ohmmeter to demonstrate that electrical continuity exists across all joints. Perform all necessary repairs to establish continuity across joints.

G. Cleaning and Disinfecting

1. All equipment and materials shall be clean before installation. Disinfect and flush the potable water system before it is put online. Water main shall be disinfected according to AWWA C651.

2. In accordance with the requirements of AWWA C651, at least one set of samples shall be collected from every 1,200 feet of new water main, plus one set from the end of the line and at least one set from each branch.

3. Obtain water samples and arrange for analysis of water in potable systems for bacteria in accordance with Option A of Section 5.1 of AWWA C651. Copies of test results shall be submitted to City of Stoughton Utilities and the engineer.

4. Furnish all water and other materials, equipment, and labor necessary to disinfect all new water mains and all existing water mains disturbed by construction. Coordinate and bear cost for necessary laboratory testing and shall provide safe bacteriological sample results to City of Stoughton Utilities prior to placing the water main in service. Sampling and testing shall be scheduled to complete the Work within the Contract Times. Items of material for testing shall be furnished in the size and quantity necessary to properly complete the test. Interruption or delay of the contractor's work progress caused by testing and sampling shall not be cause for extra payment under the contract nor shall they be cause for extension of Contract Time.
5. Flushing of the water main shall be in accordance with AWWA C651. During flushing, clear the water main of heavily chlorinated water. Do not discharge heavily chlorinated water to any storm sewer, ditches, or receiving waters prior to thoroughly neutralizing the residual chlorine. Obtain all necessary permits and approvals from the WDNR for disposal of flushing water

D Measurement

The department will measure Water Main (size), Sanitary Sewer (size) and Trench Backfill by the linear foot along the centerline of pipe including fittings and valves, 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.0090.70	6-Inch D.I. Water Main	LF
SPV.0090.71	8-Inch D.I. Water Main	LF
SPV.0090.77	Trench Backfill – Water Main	LF
SPV.0090.78	1-Inch Copper Water Service	LF
SPV.0090.79	18-Inch PVC Sanitary Sewer	LF
SPV.0090.80	8-Inch PVC Sanitary Sewer	LF
SPV.0090.84	Trench Backfill – Sanitary Sewer	LF
SPV.0090.85	4-Inch PVC Sanitary Sewer	LF
SPV.0090.86	10-Inch D.I. Water Main	LF
SPV.0090.87	10-Inch PVC Sanitary Sewer	

Payment is full compensation for providing all labor and materials, including pipe, polyethylene encasement, and miscellaneous items for installing a complete working system, for all excavating, except rock excavation; for forming foundation; for replacing unstable material in the trench bottom; for sheeting and shoring; for dewatering; for sealing joints and making connections to new or existing pipe or fixtures; for backfilling and compacting; for providing granular backfill material, including bedding material; for providing trench insulation where required; for removing sheeting and shoring; for testing and chlorination; for cleaning out pipes and structures; and restoring the worksite.

106. Remove Existing Water Main, Item SPV.0090.76; Slurry Fill and Abandon Existing 18-Inch Sanitary Sewer, Item SPV.0090.81; Slurry Fill and Abandon Existing 8-Inch Sanitary Sewer, Item SPV.0090.82; Remove Existing Sanitary Sewer, Item SPV.0090.83.

A Description

This special provision describes slurry filling and abandoning the existing sanitary sewer and removing the existing sanitary sewer and water main as the plans show and as hereinafter provided.

B Materials

Furnish tools and equipment to abandon and slurry fill the existing sanitary sewer and remove the existing sanitary sewer and water main according to the City of Stoughton and the Standard Specifications for Sewer and Water Construction in Wisconsin.

All materials used shall conform to the size and type shown in the plans or called for in the specifications.

Materials provided shall be suitable for the conditions in which they are being installed and used. Review installation requirements of the contract with material suppliers and incorporate any additional installation requirements necessary to meet the required use within the price bid for the work.

C Construction

Remove or abandon all existing piping and appurtenances as noted in the plans. Unless otherwise shown or specified, piping and appurtenances to be removed shall become the property of the contractor and shall be removed from the site for salvage or disposal. Unless otherwise shown or specified, the sanitary sewer piping shown or specified to be abandoned shall be slurry filled.

Plug open ends of pipe to be abandoned with a minimum concrete length of 12-inches into the pipe to be plugged, while allowing means for sufficient venting. Use of bulkheads are at the contractor's discretion. Contractor is responsible for installing all formwork and bracing to support filling operations. Contractor to install a flowable fill concrete mix such as elastizell with a or approved equal within the full lengths of the sanitary sewers to be abandoned as noted in the plans. Supply shop drawings of the proposed slurry fill for approval prior to completing the work. Wherever excavations cross piping to be abandoned, piping shall be removed to the limits of the excavation and the ends shall be plugged or abandoned appropriately.

D Measurement

The department will measure the Slurry Fill and Abandon Existing Sanitary Sewer and the Removal of the Existing Sanitary Sewer and Water Main by the completion of this item per Lineal Foot completed and approved by the City of Stoughton, and acceptably abandoned and removed in accordance with the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.76	Remove Existing Water Main	LF
SPV.0090.81	Slurry Fill and Abandon Existing 18-Inch Sanitary Sewer	LF
SPV.0090.82	Slurry Fill and Abandon Existing 8-Inch Sanitary Sewer	LF
SPV.0090.83	Remove Existing Sanitary Sewer	LF

Payment is full compensation for furnishing and installing all materials required to complete the contract work and disposal of the removed items.

107. Concrete Sidewalk Special, Item SPV.0165.01.

A Description

This special provision describes constructing sidewalks, of concrete, with or without reinforcement, in accordance to section 602 of the standard specifications, as the plans show, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to section 602.2 of the standard specifications.

C Construction

Construct sidewalk in accordance to section 602.3 of the standard specifications.

D Measurement

The department will measure Concrete Sidewalk Special by the square foot, acceptably completed. Measurement includes the area of the curb ramp and warning field. The department will not measure the area of concrete sidewalk intersecting a driveway if measured as driveway under section 602.4(2) of the standard specifications.

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	Concrete Sidewalk Special	SF

The department will adjust pay for ancillary concrete crack repairs on Concrete Sidewalk Special as specified in section 601.5.2 of the standard specifications.

Payment is full compensation for foundation excavation, preparation, and backfill if there is no adjacent roadway excavation taking place; for granular subbase or aggregate base if there is no adjacent roadway subbase or aggregate base being placed; providing concrete and reinforcement, and for restoring the site.

108. Wall Concrete Panel Mechanically Stabilized Earth R-13-387, Item SPV.0165.50; Wall Concrete Panel Mechanically Stabilized Earth R-13-388, Item SPV.0165.51; Wall Concrete Panel Mechanically Stabilized Earth R-13-389, Item SPV.0165.52; Wall Concrete Panel Mechanically Stabilized Earth R-13-390, Item SPV.0165.53.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system in accordance with 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.

This special provision describes the quality management program (QMP) for Mechanically Stabilized Earth (MSE) walls. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process that are related to the construction of the MSE wall, which meets all the requirements of this provision.

This special provision describes contractor quality control (QC) sampling and testing for backfill density testing, documenting those results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.

Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes sampling and testing procedures.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Concrete Panel Mechanically Stabilized Earth 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. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid opening date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared in accordance with 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.

To be eligible to provide wall facing panels for this project, a precast concrete manufacturing plant must be pre-approved by the Bureau of Technical Services under standard specification 106.3.3.3.1 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.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-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 in accordance with Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls in accordance with the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer. Where walls or wall sections intersect with an included angle of 130 degrees or less, a vertical corner element separate from the standard panel face shall abut and interact with the opposing standard panels. The corner element shall have ground reinforcement connected specifically to that panel and shall be designed to preclude lateral spread of the intersecting panels. If the wall is installed in front of a bridge abutment or wing, it shall also be designed to resist the applied abutment/bridge lateral forces specified on the plans.

Walls parallel to supporting highway traffic shall be designed for the effects of highway surcharge loading equivalent of 2 feet soil surcharge weight or 240 psf. The design shall also consider the traffic barrier impact where applicable. Walls that do not carry highway traffic shall be designed for a live load surcharge of 100 psf in accordance with Chapter 14 of the WisDOT LRFD Bridge Manual or as stated 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 Ratios (CDR) for sliding, eccentricity, and bearing checks is performed 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 in accordance with AASHTO LRFD 11.10.6. The internal stability shall include soil reinforcement pullout, soil reinforcement rupture, and panel-reinforcement connection failure at each soil reinforcement level. The design shall be performed using the Simplified Method or Coherent Gravity Method. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The value of the pullout resistance factor, F*, used in design calculations shall be obtained from the AASHTO LRFD Figure 11.10.6.3.2-2 as appropriate to the proposed reinforcement type. 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.

The wall facing shall be designed in accordance with AASHTO LRFD 11.10.2.3. The facing panels shall also be designed to resist compaction stresses that occur during the wall erection. The minimum thickness of the facing panel shall be 5.5 inches. The surface area of a standard single panel cannot exceed 60 square feet. The maximum height of a standard panel shall be 5 feet. The top and bottom panels may exceed 5 foot in height based on site topography subject to the approval by the Structures Design Section. The design of the steel reinforcement within the panels shall be based on one-way bending action. Design the wall panels and joints between panels to accommodate a maximum differential settlement of 1 foot over a 100-foot length with ¾-inch joint widths, unless the plans indicate other maximum differential settlement requirements.

The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height, or as shown on the plan. In no case shall this length be less than 8 feet. The soil reinforcement length shall be the same from the bottom to the top of the wall. All soil reinforcement layers

shall be connected to facings. The soil reinforcement shall extend a minimum of 3.0 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be 31 inches. The uppermost layer of the reinforcement shall be located between 6 inches and 18 inches below the bottom of an overlying slab, footing or top of the wall. The upper layers of the soil reinforcement shall also be checked to verify that they have sufficient tensile resistance against traffic barrier impact where applicable.

All soil reinforcement required for the reinforced soil zone shall be connected to the face panels. The reinforcement and the reinforcement/facing connection strength shall be designed to resist maximum factored reinforcement loads in accordance with AASHTO LRFD Section 11.10.6. Facing connection strength shall be defined as the resistance factor times the failure load, or the load at 0.5 inch deformation times 0.9, whichever is less. The nominal long term design strength in steel reinforcement and connections shall be based upon assumed conditions at the end of the design life.

Soil reinforcement shall be prefabricated into single or multiple elements before galvanizing. Soil reinforcement shall be fabricated or designed to avoid piling, drainage structures or other obstacles in the fill without field modifications. Unless approved by the Bureau of Structures cutting or altering of the basic structural section of either the strip or grid at the site is prohibited, a minimum clearance of 3” shall be maintained between any obstruction and reinforcement, and splicing reinforcement is not allowed.

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 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 shall consist of modular precast concrete face panels produced by a wet cast process. The concrete panels shall have a minimum strength of 4000 psi at 28 days. The concrete for the panels shall be air entrained, with an air content of 6% +/- 1.5%. All materials for the concrete mixture for the panels shall meet the requirements of standard spec 501. The panel edges shall be configured so as to conceal the joints. The detail shall be a shiplap, tongue and groove or other detail adequate to prevent vandalism or ultraviolet light damage to the backside of the wall joint covering. Joint widths between panels shall be uniform and ¾-inch, unless noted otherwise on the plans. Use full wall height slip joints at points of differential settlement when detailed on the plan. Horizontal joints must be provided with a compressible bearing material to prevent concrete to concrete contact. Panels shall be reinforced using coated high-strength bar steel or welded steel wire fabric conforming to standard spec 505. Welded steel wire fabric shall be epoxy-coated in accordance with ASTM A884 or galvanized in accordance with AASHTO M 111 or ASTM A641. Panel dowels for cast-in-place copings shall be coated high-strength bar steel conforming to standard spec 505. Unless approved by the Bureau of Structures, adhesive anchors are prohibited.

For reinforced cast-in-place concrete cap or coping, use poured 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. Use coated high-strength bar steel conforming to standard spec 505.

Provide a minimum of two bearing pads per panel. The allowable bearing stress shall not exceed 900 psi. The bearing pads shall be preformed EPDM rubber conforming to ASTM D2000, Grade 2, Type A, Class A with a Durometer Hardness of 80 +/-5, or high- density polyethylene pads with a minimum density of 0.034 lb/in^3 in accordance with ASTM D1505.

An 18-inch wide geotextile shall be used on the backface of the wall panels to cover all panel joints. The geotextile shall meet the physical requirements stated in standard spec 645.2.4 for Geotextile, Type DF, Schedule B, except that the grab tensile strength shall be a minimum of 180 pounds in both the machine and cross-machine directions. The geotextile shall be attached with a standard construction adhesive suitable for use on concrete surfaces and cold temperatures. The adhesive shall be applied to the panels, not to the geotextile.

B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete 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.

The minimum width of the leveling pad shall be 12-inches. The minimum thickness of the leveling pad shall be 6-inches.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Place backfill in a zone extending horizontally from the back face of the wall facing to 1 foot minimum beyond the end of the reinforcement and extending vertically from the top of the leveling pad to a minimum of 3 inches above the final reinforcement layer.

Use natural sand or a mixture of sand with gravel, crushed gravel or crushed stone. Do not use foundry sand, bottom ash, blast furnace slag, crushed/recycled concrete, crushed/milled asphaltic concrete or other potentially corrosive material.

Provide material conforming to the following gradation requirements as per AASHTO T27.

Sieve Size	**% by Weight Passing**
1 inch	100
No. 40	0 - 60
No. 200	0 - 15

The material shall have a liquid limit not greater than 25, as per AASHTO T89, and a plasticity index not greater than 6, as per AASHTO T90. Provide the percent by weight, passing the #4 sieve.

In addition, backfill material shall meet the following requirements.

Test	**Method**	**Value**	
		(Galvanized)	**(Aluminized Type 2)**
pH	AASHTO T-289	5.0-10.0	5.0 – 9.0
Sulfate content	AASHTO T-290	200 ppm max.	
Chloride content	AASHTO T-291	100 ppm max.	
Electrical Resistivity	AASHTO T-288	3000 ohm-cm min.	1500 ohm-cm min.
Organic Content	AASHTO T-267	1.0% max.	
Angle of Internal Friction	AASHTO T-236[1]	30 degrees min. (At 95.0% of maximum density and optimum moisture, per AASHTO T99, or as modified by C.2.)	

[1] If the amount of P-4 material is greater than 60%, use AASHTO 236 with a standard-size shear box. Test results of this method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

If the amount of P-4 material is less than or equal to 60%, two options are available to determine the angle of internal friction. The first method is to perform a fractured faces count, per ASTM D5821, on the R-4 material. If more than 90% of the material is fractured on one face and more than 50% is fractured on two faces, the material meets the specifications and the angle of internal friction can be assumed to be 30 degrees. The second method allows testing all P-1” material, as per AASHTO T-236, with a large

shear box. Test results of this second method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

Prior to placement of the backfill, obtain and furnish to the engineer a certified report of test results that the backfill material complies with the requirements of this specification. Specify the method used to determine the angle of internal friction. This certified report of test shall be less than 6 months old. Tests will be performed by a certified independent laboratory. In addition, when backfill characteristics and/or sources change, provide a certified report of tests for the new backfill material. Additional certified report of tests are also required. These additional backfill tests may be completed at the time of material production or material placement, with concurrence of the engineer. If this additional testing is completed at the time of material production, complete testing for every 2000 cubic yards of backfill or portion thereof. If this additional testing is completed at the time of material placement, complete testing for every 2000 cubic yards of backfill, or portion thereof, used per wall. For the additional required testing for every 2000 cubic yards of backfill placement, if the characteristic of the backfill and/or the source has not changed then Angle of Internal Friction tests are not included in the additional required testing. All certified reports of test results shall be less than 6 months old and performed by a certified independent laboratory.

B.3.4 Soil Reinforcement

All steel portions of the wall system exposed to earth shall be galvanized. All soil reinforcement and attachment devices shall be carefully inspected to ensure they are true size and free from defects that may impair the strength and durability. Soil reinforcement shall be galvanized or aluminized Type 2. Galvanized soil reinforcement shall be in accordance with AASHTO M 111 or ASTM A641. Aluminized soil reinforcement shall be in accordance with ASTM A463 Aluminized Type 2-100, SS, Grade 50, Class 2. Design of galvanized soil reinforcement shall be in accordance to Section 11.10.6.4.2 of the current AASHTO LRFD Specifications. The design life of steel soil reinforcements shall comply with AASHTO LRFD. Aluminized soil reinforcement shall be limited 16 years of steel protection. Aluminized steel shall only be used on soil reinforcement elements and shall not be used on facing connections or any other steel portion of the wall system. Steel soil reinforcement shall be prefabricated into single or multiple elements before galvanizing.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the MSE wall and the leveling pad shall be in accordance with standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the depth of the leveling pad unless shown or noted otherwise on the plan. 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.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall panels, soil reinforcement, 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.

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing. Place and compact material beyond the reinforced soil zone to allow for proper compaction of material within the reinforced zone. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back panels. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the panels.

C.2 Compaction

Compact all backfill behind the wall as specified in standard spec 207.3.6. Compact the backfill to 95.0% of maximum dry density as determined by AASHTO T-99 (modified to compute densities to the nearest 0.1 pcf).

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 panels. Do not use sheepsfoot or padfoot rollers within the reinforced soil zone.

A minimum of 3 inches of backfill shall be placed over the MSE reinforcement prior to working above the reinforcement.

C.3 Wall Components

C.3.1 General

Erect panel facing and other associated elements according to the wall manufacturer's construction guide. Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing.

The MSE reinforcement shall lay horizontally on the top of the most recently placed and compacted layer of MSE backfill. Bending of MSE reinforcement that result in a kink in the reinforcement shall not be allowed. If skewing of the reinforcement is required due to obstructions in the reinforced fill, the maximum skew angle shall not exceed 15 degrees from the normal position unless a greater angle is shown on the plans. The adequacy of the skewed reinforcement in such a case shall be addressed by supporting calculations.

C.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad as shown on the plans. Vertical tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. Allow 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. Rubber or plastic shims may be used to level the wall facing units at the leveling pad. No more than 2 shims (each 3/16-inch thick) shall be used to level the wall facing.

C.3.3 Steel Layers

Place the steel reinforcement full width in one piece as shown on the plans. No splicing will be allowed. Maintain elements in position during backfilling.

C3.4 Panel Tolerances

As backfill material is placed behind a panel, maintain the panel in its proper inclined position according to the supplier specifications and as approved by the engineer. The supplier shall specify the back batter so that the final position of the wall is vertical. Vertical tolerances and horizontal alignment tolerances shall not exceed ¾-inch when measured along a 10-foot straight edge. The maximum allowable offset in any panel joint shall be ¾-inch. The overall vertical tolerance of the wall (plumbness from top to bottom) shall not exceed ½-inch per 10 feet of wall height. Erect the precast face panels to ensure that they are located within 1 inch from the contract plan offset at any location to ensure proper wall location at the top of the wall. Provide a uniform joint width between all adjacent face panels to prevent direct concrete-to-concrete contact. Maintain this width by the use of bearing pads and/or alignment pins. The final joint width shall be within ¼-inch of the design joint width. Failure to meet this tolerance shall cause the engineer to require the contractor to disassemble and re-erect the affected portions of the wall. In addition, imperfect molding, honeycombing, cracking or severe chipping of panels shall be cause of panel rejection.

C.4 Quality Management Program

C.4.1 Quality Control Plan

Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not perform MSE wall construction work before the engineer reviews and accepts the plan. Construct the project as the plan provides.

Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:

1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.

2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.
3. A list of source locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
4. Descriptions of stockpiling and hauling methods.
5. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
6. Location of the QC laboratory, retained sample storage, and other documentation.
7. A summary of the locations and calculated quantities to be tested under this provision.
8. A proposed sequencing plan of wall construction operations and random test locations.

C.4.2 Quality Control Personnel

Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at the grading site during all wall backfill placement, compaction, and nuclear testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

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

C.4.3 Equipment

Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.

Furnish nuclear gauges from the department's approved product list at:

http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/default.aspx

Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

Conform to AASHTO T310 and CMM 8-15 for density testing and gauge monitoring methods.

Split each Proctor sample and identify so as to provide comparison with the department's test results. Unless the engineer directs otherwise, retain the QC split samples for 14 calendar days and promptly deliver the department's split samples to the department.

C.4.4 Documentation

Document all observations, inspection records, and process adjustments daily. Submit test results to the department's project materials coordinator on the same day they become available.

Use forms provided in CMM Chapter 8. Note other information in a permanent field record and as a part of process control documentation enumerated in the contractor's quality control plan. Enter QC data and backfill material certified report results into the applicable materials reporting system (MRS) software within 5 business days after results are available.

Submit final testing records and other documentation to the engineer electronically within 10 business days after all contract-required information becomes available. The engineer may allow submission of scanned copies of hand-written documentation.

C.4.5 Quality Control (QC) Testing

Perform compaction testing on the backfill. Conform to CMM 8-15 for testing and gauge monitoring methods. Conduct testing at a minimum frequency of 1 test per 150 cubic yards of backfill, or major

portion thereof in each lift. A minimum of one test for every lift is required. Deliver documentation of all compaction testing results to the engineer at the time of testing.

Perform one gradation test every 750 cubic yards of fill and one 5-point Proctor test (or as modified in C.2) every 2,250 cubic yards of fill. Provide the region split samples of both within 72 hours of sampling, at the region laboratory. Test sites shall be selected using ASTM Method D3665. Provide Proctor test results to the engineer within 48 hours of sampling. Provide gradation test results to the engineer within 24 hours of sampling.

C.4.6 Department Testing

C.4.6.1 General

The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within 2 business days after the department obtains the sample.

C.4.6.2 Quality Verification (QV) Testing

The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.4.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

The department will conduct QV tests at the minimum frequency of 30% of the required contractor density, Proctor and gradation tests.

The department will locate density tests and gradation samples randomly, at locations independent of the contractor's QC work. The department will split each Proctor and gradation QV sample, testing half for QV, and retaining the remaining half for 10 business days.

The department will conduct QV Proctor and gradation tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.

The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If density QV test results are nonconforming, the area shall be reworked until the density requirements of this special provision are met. If the gradation test results are nonconforming, standard spec 106.5 will apply. Differing QC and QV nuclear density values of more than 1.5 pcf will be investigated and resolved. QV density tests will be based on the appropriate QC Proctor test results, unless the QV and QC Proctor result difference is greater than 3.0 pcf. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.4.6.3 Independent Assurance (IA)

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

1. Split sample testing.
2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. Reviewing required worksheets and control charts.
6. Requesting that testing personnel perform additional sampling and testing.

If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.4.6.4.

C.4.6.4 Dispute Resolution

The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to

the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

Production test results, and results from other process control testing, may be considered when resolving a dispute.

If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.5 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation of the entire reinforced soil zone, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Wall Concrete Panel Mechanically Stabilized Earth 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 measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.50	Wall Concrete Mechanically Stabilized Earth R-13-387	SF
SPV.0165.51	Wall Concrete Mechanically Stabilized Earth R-13-388	SF
SPV.0165.52	Wall Concrete Mechanically Stabilized Earth R-13-389	SF
SPV.0165.53	Wall Concrete Mechanically Stabilized Earth R-13-390	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 pads, leveling pad steps, and shims; 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 parapets, traffic barriers, railings, and other items above the wall cap or coping.

ADDITIONAL SPECIAL PROVISION 1 (ASP 1)
HIGHWAY CONSTRUCTION SKILLS TRAINING (HCST)
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 include: 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).

The Wisconsin Department of Transportation OJT program was originally established in 1995. Highway Construction Skills Training (HCST) was previously known as Transportation Alliance for New Solutions (TrANS) and underwent a name change in early 2023. HCST is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities, and disadvantaged persons as laborers and apprentices in the highway skilled trades. Candidate preparation and contractor coordination services (OJT Supportive Services) are provided by contracted community-based organizations.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or advancement to apprenticeship of Highway Construction Skills Training (HCST) graduates and employing eligible trainees in qualifying trades will be made as follows:

1) **On-the-Job Training, Item ASP.1T0G, ASP 1 HCST Graduate.** At the rate of $5.00 per hour on Federal-aid projects when HCST graduates are initially hired, or seasonally rehired, as unskilled laborers or equivalent.
   Eligibility and Duration: To the employing contractor, for up to 2,000 hours or two years, whichever comes first from the point of initial hire as a HCST placement.
   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that ___12___ HCST Graduate(s) be utilized for ___6480____ hours 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 HCST Program is subsequently entered into an apprenticeship contract in a qualifying trade.
   Eligibility and Duration: To the employing contractor, for the length of time that the HCST graduate is in apprenticeship status.
   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that ___7___ HCST Apprentice(s) be utilized for ___2100____ hours on this contract.

3) The maximum duration of reimbursement is two years as a HCST graduate plus time in apprentice status.

4) If a HCST 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 Department of Transportation Labor Development Specialist at the phone number listed below.

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 HCST 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 HCST 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 HCST 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 HCST 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 page 2 Dated January 2012 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 HCST graduate or a HCST apprentice. The compliance specialists utilize the information on the Certified Payrolls to track the hours accumulated by HCST Graduates and HCST 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. HCST 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. HCST 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 ensure that this training special provision is made applicable to such subcontract. Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training

special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not. No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons, and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

(1) To increase the overall effectiveness of the State highway agencies' approved training programs.

(2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Office of Business Opportunity & Equity Compliance (OBOEC). A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT OBOEC - Labor Development, 141 NW Barstow Street, Suite 411, PO Box 798, Waukesha, WI 53187.

VI. PROGRAM CONTACTS

Marguerite (Maggie) Givings, Labor Development Specialist
Margueritel.Givings@dot.wi.gov | 608-789-7876

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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

(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

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

*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://wisconsindot.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 Expediters, 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 + 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 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

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.

<u>Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released weeks prior to each Let)</u>

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?

<u>Following Bid Opening- this discussion can happen at any time</u>

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). 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 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** 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
Solicitation Documentation	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. *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)*		
Selected Work Items Documentation	All work items are broken out into economically feasible units to facilitate DBE participation. *Such as: Selected work items are specific to each proposal and clearly identified in all solicitation(s)*		
Documentation of Project Information provided to Interested DBEs	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. *Such as: Project information is clearly identified in all solicitation(s)*		
Documentation of Negotiation with Interested DBEs	Provide sufficient evidence demonstrating that good faith negotiations took place during the bid letting. *Such as: Documented attempts with DBEs or on behalf of DBEs to increase DBE participation*		
Documentation of Sound Reason for Rejecting DBEs	Provide sufficient evidence demonstrating that DBEs are rejected for sound reasons. *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.*		
Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials	Documented assistance in both solicitation(s) and outreach to DBEs.		
Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support	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. *Such as: Variety of activities that translate into meaningful DBE participation*		
Documentation of other GFE activities	*Such as: Used DT1202 Excel Workbook, Diversity & 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*		
Overall Demonstration of GFE			

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

GFE RUBRIC ANALYSIS	
OBOEC DECISION	APPROVAL OR DENIAL
Prime Contractor	
Proposal	
Project	
Bid Letting	
DBE Goal Amount	
DBE Goal Amount Achieved	
Bid Analysis	
Goal %	Achieved %
Apparent Low Bidder	%
Bidder B	
Bidder C	
Average of OTHER Bidders (Not including Apparent Low Bidder)	
DBE Quotes Received	
DBE Quotes Awarded	
DBE Quote(s) Rejected	**Rejected Quote Analysis**
DBE Quote(s) Awarded	**Awarded DBE Amount**

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) Conducing 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://wisconsindot.gov/Documents/formdocs/dt1506.pdf

Clear

COMMITMENT TO SUBCONTRACT TO DBE

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#		
			O# L#		
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			O# L#		
			O# L#		
			O# L#		
				$ 0.00	$ 0.00

Government Use Only Approved Amounts		
A =	$	%
V =	$	%
Total =	$	%

Signature:

Date:

Good faith effort approved: Yes ☐ No ☐

______

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: *(list all names of tiers if more than one)*	
Type of Work or Type of Material Supplied:	
Total Subcontract Value:	Total DBE Credit Value:

FOR PRIME CONTRACTORS ONLY: 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

FOR PARTICIPATING DBE FIRMS ONLY: 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.	Participating DBE Firm Representative's Signature	Date
	Participating DBE Firm Representative's Name (Print Name)	
FOR DBE TRUCKING FIRMS ONLY: 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 (Print Company Name)	
	DBE Firm's Address:	

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

☐ Off site Hauling

Official Form DT1506 can be found here: https://wisconsindot.gov/Documents/formdocs/dt1506.pdf

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 PROVISIONS 5
FUEL COST ADJUSTMENT

A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

C Fuel Index

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is $2.20 per gallon.

D Computing the Fuel Cost Adjustment

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

(1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.

(2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.

(3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.

(4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left(\frac{CFI}{BFI} - 1\right) x\ Q\ x\ BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

E Payment

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.

Additional Special Provision 6 (ASP-6)
Modifications to the standard specifications

Table of Contents

Additional Special Provision 6 (ASP-6)
Modifications to the standard specifications

Make the following revisions to the standard specifications.

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104 Scope of Work

104.6.1.2.3 Drop-Off Protection

Replace subsection with the following effective with the November 2025 letting.

(1) Eliminate vertical drop-offs greater than 2 inches and edge slopes steeper than 3:1 between adjacent lanes open to traffic.

(2) If the roadway remains open to through traffic during construction and a greater than 2-inch drop-off occurs within 3 feet or less from the edge of the traveled way, eliminate the drop-off within 48 hours after completing that days work. Provide aggregate shoulder material compacted to a temporary 3:1 or flatter cross slope from the surface of the pavement edge.

(3) Unless the engineer allows otherwise address drop-offs when they exist greater than 3 and less than 8 feet from the travelled way as follows:

- Delineate vertical drop-offs 2 inches or greater and edge slopes steeper than 3:1 with drums, barricades, and signs, by the end of the workday.
- Eliminate vertical drop-offs 2 inches or greater and edge slopes steeper than 3:1 within 72 hours or before a weekend or holiday whichever comes first.
- Eliminate or use temporary concrete barrier to protect vertical drop-offs 4-inches or greater after 72 hours or before a weekend or holiday whichever comes first.

(4) If a 4-inch or greater vertical drop-off or an edge slope steeper than 3:1 exists greater than 8 and less than 15 feet from the traveled way, delineate that drop-off or edge slope with drums, barricades, and signs by the end of the workday.

(5) If a 12-inch or greater vertical drop-off exists greater than 8 and less than 15 feet from a traveled way with a posted speed limit of 55 mph or greater, eliminate or use temporary concrete barrier to protect that drop-off within 72 hours or before a weekend or holiday whichever comes first.

104.6.1.2.4 Hazard Protection on Roads Open to All Traffic

Replace subsection with the following effective with the November 2025 letting.

(1) On roads open to all traffic; conform to the following construction clear zone requirements:

- Posted speeds 45 mph or less: within 8 feet of the travelled way.
- Posted speeds from 45 mph to 55 mph inclusive: within 10 feet of the travelled way.
- Posted speeds above 55 mph: within 15 feet of the travelled way.

(2) Remove all construction debris, stored materials, and equipment not in use from the construction clear zone; or if the engineer allows, delineate and shield with concrete barrier.

(3) Delay removal of existing permanent roadside safety devices until necessary. When located within the construction clear zone and not shielded by concrete barrier, use temporary traffic control drums to delineate bridge abutments, concrete barrier blunt ends, sign bridge foundations, drainage structures, and slopes exposed by removing permanent protective measures.

- For exposed bridge abutments, concrete barrier blunt ends, sign bridge foundations, and drainage structures, eliminate the need for delineation within 5 calendar days.
- For exposed slopes steeper than 3:1, eliminate the need for delineation within 14 calendar days, or duration approved by the engineer.

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107 Legal Relations and Responsibility to the Public

Add section 107.27 (Drones or Unmanned Aircraft Systems (UAS)) effective with the November 2024 letting.

107.27 Drones or Unmanned Aircraft Systems (UAS)

107.27.1 Licensing and Compliance

(1) Obtain and possess the necessary Federal Aviation Administration (FAA) licenses and certifications to operate drones commercially (https://www.faa.gov/uas).

(2) Comply with all FAA regulations, airspace restrictions, and local laws. Operators of small drones that are less than 55 pounds for work or business must follow all requirements as listed in Title 14, Chapter 1, Subchapter

F, Part 107 of the Code of Federal Regulations (14 CFR) and obtain a remote pilot certificate (https://www.faa.gov/uas/commercial_operators).

(3) Comply with Wisconsin State Statute 942.10. Limit operations to the specific approved purpose and employ reasonable precautions to avoid capturing images of the public except those that are incidental to the project.

(4) Provide copies of waivers required for specific project conditions to the engineer prior to any flight.

107.27.2 Flight Approval, Safety, and Incident Reporting

(1) Submit information in 107.27.2(2) to obtain written drone flight approval from the engineer at least 3 business days prior to operating a drone within the right-of-way. Do not operate a drone within the right-of-way unless approved by the engineer.

(2) Drone flight application for review and approval must include:

- UAS pilot information and qualifications, images of certification
- UAS drone information and FAA tail numbers
- Max/ Min allowable flight parameters (weather)
- Specifics of flight mission: capture scope
- Estimated flight duration
- Pre-flight checklist
- Site-specific parameters
- Notification protocols - Federal/Local/Agency/Owner/Responsible in Charge
- Confirmation and verification of approved operators and hardware
- Flight plan map diagram (including launch and landing location)
- FAA-Airspace flight map classification and confirmation with graphics
- UAS incident management protocol

(3) If contractor is requesting multiple types of the same flight, a simplified request can be submitted listing weekly flight plan.

(4) Safety measures must include but are not limited to:

- Regular training and updates on drone regulations are required and must be provided upon request.
- Drones must be operated in accordance with safety guidelines, including maintaining a safe distance from people, structures, vehicles, etc.
- Conduct a pre-flight safety assessment, considering weather conditions, airspace restrictions, and potential hazards.
- Emergency procedures (e.g., drone malfunction, loss of control) must be documented and followed.
- All incidents must be reported to the engineer.

(5) If the drone has an incident during flight, report the following to the engineer:

- Incident background and details.
- FAA (14 CFR 107.9) and NTSB (49 CFR 870) notification protocol.
- Contractor internal notification protocol.

107.27.3 Insurance Requirements

(1) Maintain drone liability insurance with the following limits.

1. For drones weighing 10 pounds or less, a liability policy with a minimum limit of $1,000,000.00 is required.
2. For drones weighing more than 10 pounds and less than or equal to 20 pounds, a liability policy with a minimum limit of $2,000,000.00 is required.
3. For drones weighing more than 20 pounds, notify engineer and department will determine appropriate liability policy coverage levels based on size, use, location, and other risk factors.

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305 Dense Graded Base

305.3.3.3 Shoulders Adjacent to Asphaltic Pavement or Surfacing

Replace subsection with the following effective with the November 2025 letting.

(1) If the roadway is closed to through traffic during construction, construct the aggregate shoulders before opening the road.

(2) If the roadway remains open to through traffic during construction, conform as specified in 104.6.1.2.3.

(3) Provide and maintain signing and other traffic protection and control devices, as specified in 643, until completing shoulder construction to the required cross-section and flush with the asphaltic pavement or surfacing.

310 Open-Graded Base

310.2 Materials

Replace paragraph (2) with the following effective with the November 2025 letting.

(2) The contractor may substitute material conforming to the gradation requirements for crushed aggregate specified in table 310-01 if that material conforms to the fracture requirements for open-graded crushed gravel specified in 301.2.4.5.

TABLE 310-01 COARSE AGGREGATE (% passing by weight)

AASHTO No. 67[1]

SIEVE	COARSE AGGREGATE (% PASSING by WEIGHT) AASHTO No. 67
2-inch	-
1 1/2-inch	-
1-inch	100
3/4-inch	90 - 100
1/2-inch	-
3/8-inch	20 - 55
No. 4	0 - 10
No. 8	0 - 5
No. 16	-
No. 30	-
No. 50	-
No. 100	-
No. 200	-

[1] Size according to AASHTO M43.

415 Concrete Pavement

415.3.16.4.1.2 Magnetic Pulse Induction

Replace subsection with the following effective with the November 2025 letting.

(1) The department will measure thickness within 10 business days of paving. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.

(2) The department will establish a project reference plate at the start of each paving stage. The department will notify the contractor of project reference plate locations before testing. The department will measure the project reference plate before each day of testing.

(3) If the random plate test result falls within 80 to 50 percent pay range specified in 415.5.2, the department will measure the second plate in that unit. The department will notify the contractor immediately if the average of the 6 readings fall within the 80 to 50 percent pay range.

(4) If an individual random plate test result is more than 1 inch thinner than contract plan thickness, the pavement is unacceptable. Department will determine limits of unacceptable pavement by performing the following:

- The engineer will test each consecutive plate stationed ahead and behind until the thickness test result is plan thickness or greater.
- The engineer will direct the contractor to core the hardened concrete to determine the extent of the unacceptable area. In each direction, the contractor shall take cores at points approximately 20 feet from the furthest out of specification plate towards the plate that is plan thickness of greater. Once a core is within 80 to 100 percent pay range, the coring is complete and the limits of unacceptable pavement extend from the stationing between the core test results of 80 to 100 percent payment, inclusive of all unacceptable core and plate test results.
- Perform coring according to WTM T24. The department will evaluate the results according to AASHTO T148
- Fill core holes with concrete or mortar.

416 Concrete Pavement - Repair and Replacement

416.2 Materials

416.2.1 General

Replace paragraph (3) with the following effective with the November 2025 letting.

(3) The contractor may use accelerating admixtures for concrete placed under SHES bid items as follows:

1. If using calcium chloride,
   - AASHTO M144, type S as grade N1 or grade N2, class A.
   - AASHTO M144, type L in a concentration of approximately 30 percent for premixed solutions.
2. If using non-chloride accelerators, conform to:
   - AASHTO M194, type C accelerating admixtures.
3. Do not exceed the manufacturer's recommended maximum dosage.
4. If the engineer requests, provide a written copy of the manufacturer's dosage recommendations.

416.2.4 Special High Early Strength Concrete Pavement Repair and Replacement

416.2.4.1 Composition and Proportioning of Concrete

Add paragraph (4) to subsection effective with the November 2025 letting.

(4) The contractor may use pre-packaged horizontal rapid set concrete patch material from the APL for partial and full-depth pavement repairs instead of specified grades of concrete.

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506 Steel Bridges

506.3.12.3 High-Strength Bolts

506.3.12.3.1 Materials

Replace subsection with the following effective with the November 2025 letting.

(1) Install bolts according to AASHTO LRFD Bridge Construction Specifications, article 11.5.5, with the following exceptions:

1. If connections are assembled, install bolts with a hardened washer under the nut or bolt head, whichever is the element turned in tightening.
2. If using oversized holes, 2 hardened washers are required, one under the bolt head and one under the nut.
3. Bring the bolted parts into solid contact bearing before final tightening. Use not less than 25 percent of the total number of bolts in a joint to serve as fitting up bolts.
4. For steel diaphragms on prestressed concrete bridges do the following:
   4.1. For steel-to-steel connections within diaphragms:
      - Tension by the turn-of-nut method.
   4.2. For steel-to-concrete girder connections:
      - No PIV or field rotational capacity (RoCAP) testing is required.
      - Tighten as the plan details specify.

(2) Before fasteners are delivered to the site, provide documentation of rotational capacity testing in accordance with ASTM F3125, Annex A2, Rotational Capacity (RoCap)Test. The fasteners must be received in packages that match the fastener assembly combination as tested. If documentation of RoCap testing is not received; then perform this testing in the field prior to installation.

(3) Install bolt, nut, and washer combinations from the same rotational-capacity lot.

(4) Check galvanized nuts to verify that a visible dyed lubricant is on the threads and at least one bolt face.

(5) Ensure that uncoated bolts are oily to the touch over their entire surface when delivered and installed.

(6) Provide and use a Skidmore-Wilhelm Calibrator or an acceptable equivalent tension measuring device at each job site during erection. Perform pre-installation verification (PIV) testing in the field conforming to the procedures enumerated in department form DT2114 no earlier than 14 calendar days prior to permanent bolting. Submit 2 copies of form DT2114 to the engineer.

(7) Prior to installation, ensure that the fastener condition has not changed due to accumulation of rust or dirt, weathering, mixture of tested assembly lots, or other reasons. If changes have occurred, including cleaning and re-lubricating of weathered bolts, the engineer will require re-qualification using RoCap testing in the field, for a minimum of two fastener assemblies of each combination to be used in permanent bolting, and PIV re-testing.

(8) Additional RoCap or PIV tests are required whenever the condition of the fasteners or understanding of the bolting crew is in question by the Engineer. Do not allow permanent bolting until PIV testing is completed.

(9) Tighten threaded bolts by the turn-of-nut method while holding the bolt head. Where clearance is an issue, the contractor may tighten the bolt head while holding the nut.

(10) The contractor may use alternate tightening methods if the engineer approves before use.

(11) The contractor may use a flat washer if the surface adjacent to and abutting the bolt head or nut does not have a slope of more than 1:20 with respect to a plane normal to the bolt axis. For slopes greater than 1:20, use smooth, beveled washers to produce parallelism.

(12) Snug all bolts during installation according to AASHTO LRFD Bridge Construction Specifications, article 11.5.5.4.1.

(13) Tighten each fastener to provide, if all fasteners in the joint are tight, at least the minimum bolt tension as follows:

TABLE 506-1 BOLT TENSION

BOLT SIZE	REQUIRED MINIMUM BOLT TENSION[1]
1/2-inch	12 kips
5/8-inch	19 kips
3/4-inch	28 kips
7/8-inch	39 kips
1-inch	51 kips
1 1/8-inch	64 kips
1 1/4-inch	81 kips
1 3/8-inch	97 kips
1 1/2-inch	118 kips

[1] Equal to the proof load by the length measurement method as specified in ASTM F3125 for grade A35 bolts.

(14) Do not reuse galvanized F3125 A325 bolts. The contractor may reuse uncoated F3125 A325 bolts, if the engineer approves, but not more than once. The department will not consider re-tightening previously tightened bolts that become loosened by the tightening of adjacent bolts as reuse.

506.3.19 Welding

Replace subsection title and text with the following effective with the November 2025 letting.

506.3.19.4 Welding Inspection

(1) Inspect welding according to the current edition of AWS D1.5. Unless specified otherwise, test butt welds in main members by either the radiographic or the ultrasonic method.

(2) Test fillet welds and groove welds not covered otherwise in main members in a non-destructive manner by the magnetic particle method according to ASTM E709, utilizing the yoke method. This includes, but is not limited to, a minimum of 12 inches in every 10 feet or portion thereof of each weld connecting web to flange, bearing stiffener to web or flange, framing connection bar to web or flange, and longitudinal stiffener to web or vertical bar.

506.3.31 Cleaning of Surfaces

506.3.31.2 Coated Surfaces

Replace subsection with the following effective with the November 2025 letting.

(1) Blast clean structural steel and ferrous metal products to be coated as specified in 517.3.1.3.3.

(2) Blast clean steel that will be encased in concrete to SSPC-SP 6 standards or cleaner.

506.3.32 Painting Metal

Replace subsection with the following effective with the November 2025 letting.

(1) Unless the contract provides otherwise, apply 3 coats of paint to structural steel and ferrous metal products. Furnish and apply paints according to the epoxy system or as specified in the special provisions. The requirements for this system are set forth in 517.

(2) For structural steel, including weathering steel, and miscellaneous metals that will be encased in concrete, paint as specified in 517.3.1.

(3) For galvanized surfaces paint as specified in 517.3.1.

(4) Use the 3-coat epoxy system to paint the end 6 feet of structural weathering steel at the abutments, the 6 feet on each side of piers, joints, downspouts, hinges, and galvanized bearings in contact with weathering

steel. Use a coat of brown urethane matching AMS Standard 595A: AMS-STD 20059. Apply one coat of zinc-rich paint to surfaces of expansion joint assemblies and other surfaces not in contact with the weathering steel but inaccessible after assembly or erection.

(5) Do not paint structural steel to be welded before completing welding. If welding only in the fabricating shop and subsequently erecting by bolting, coat it after completing shop welding. Apply one coat of weldable primer or other engineer-approved protective coating to steel surfaces to be field welded after completing shop welding and shop fabrication. Protect machine-finished surfaces that do not receive a paint or galvanizing from contamination during the cleaning and painting process.

(6) Upon fabrication and acceptance, coat pins and pinholes with a plastic or other engineer-approved coating before removing from the shop.

(7) Mark members weighing 3 tons or more with their weights on areas that will be encased in concrete, or paint with a compatible paint on zinc-rich primer, or mark with soapstone on an epoxy-coated surface. Wait until material is dry, inspected, and approved for shipment before loading for shipment.

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509 Concrete Overlay and Structure Repair

509.2 Materials

Replace subsection with the following effective with the November 2025 letting.

(1) Furnish a neat cement bonding grout. Mix the neat cement in a water-cement ratio approximately equal to 5 gallons of water per 94 pounds of cement. Pre-packaged non-shrink grout from the APL may be used instead of site mixed or ready mixed grout.

(2) Furnish grade E conforming to 501 for overlays.

(3) Furnish grade C or E concrete conforming to 501 for surface repairs. The contractor may increase the slump for grade E concrete to a maximum of 4 inches. For vertical and overhead repairs, use pre-packaged vertical and overhead repair material from the APL unless a different material is approved by the engineer in writing.

(4) Furnish grade C or E concrete conforming to 501 for joint repairs, curb repairs, and full-depth deck repairs; except as follows:

1. The contractor may increase slump of grade E concrete to 3 inches.
2. The contractor may use ready-mixed concrete.

(5) Provide QMP for class II ancillary concrete as specified in 716 if using concrete mixtures conforming to 501.

---

513 Railing

513.2.3 Steel Railing

Replace subsection with the following effective with the November 2025 letting.

(1) Furnish steel railing components as follows:

Structural steel	506.2.2
High strength bolts	506.2.5
Steel guardrail	614.2
Round structural steel tubing for steel pipe railing	ASTM A500 grade B
Structural steel tubing used with other steel railings	ASTM A500 grade B or C

(2) Furnish a two-coat paint system from the APL for structure painting systems under paint - galvanized surfaces.

---

517 Paint and Painting

517.3.1.3.3 Blast Cleaning

517.3.1.3.3.2 Epoxy Coating System

Replace subsection with the following effective with the November 2025 letting.

(1) Blast clean structural steel receiving this coating to a near-white finish according to SSPC-SP 10.

(2) Solvent clean oil and grease on surfaces receiving this coating according to SSPC-SP 1 and blast clean to a near-white finish according to SSPC-SP 10.

(3) Remove fins, tears, slivers, and burred or sharp edges present on any steel member, or that appears during blasting, by grinding then re-blast the area to a one to 2 mils surface shape.

(4) If using abrasives for blast cleaning, use either clean dry sand, steel shot, mineral grit, or manufactured grit of a gradation that produces a uniform one to 2 mils profile as measured with a department-approved impregnated surface profile tape.

(5) Remove abrasive and paint residue from steel surfaces with a commercial grade vacuum cleaner equipped with a brush-type cleaning tool, or by double blowing. If using the double blowing method, vacuum the top surfaces of structural steel, including top and bottom flanges; longitudinal stiffeners, splice plates, and hangers after completing the double blowing operations. Ensure that the steel is dust free when applying primer. Apply the primer within 8 hours after blast cleaning.

(6) Protect freshly coated surfaces from later blast cleaning operations. Brush any blast damaged primed surfaces with a non-rusting tool, or if visible rust occurs, re-blast to a near white condition. Clean the brushed or blast cleaned surfaces and re-prime within the manufacturer's recommended time.

(7) When coating galvanized surfaces, ensure tie-coat adhesion by brush blasting the cleaned surface according to SSPC-SP7 to create a slight angular surface profile according to manufacturer's recommendations of 1 mil to 1.5 mils. Blasting must not fracture the galvanized finish or remove dry film thickness. For the tie- and top-coat, furnish an epoxy coating system from the APL for paint systems for galvanized surfaces.

517.3.1.3.5 Galvanizing

Add subsection effective with the November 2025 letting.

(1) After fabrication, blast clean assemblies per SSPC-SP6 and galvanize according to ASTM A123.

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526 Temporary Structures

526.3.4 Construction, Backfilling, Inspection and Maintenance

Replace subsection with the following effective with the November 2025 letting.

(1) Construct temporary structures conforming to 500. Backfill conforming to 206.3.13 with structure backfill conforming to 210.2.

(2) Temporary highway bridges open to traffic less than or equal to 24 months: inspect temporary bridges conforming to the National Bridge Inspection Standards (NBIS) and the department's Structure Inspection Manual (SIM) before opening to traffic. Perform additional inspections, as the department's SIM requires, based on structure type, condition, and time in service. Submit inspection reports on department form DT2007 to the engineer and electronic copies to the Bureau of Structures (BOS) Maintenance Section. Ensure that a department-certified qualified team leader performs the inspections.

(3) Temporary highway bridges open to traffic greater than 24 months: complete additional inspections and inventory data collection per the NBIS and SIM within 27 months of the bridge being opened to traffic. Contact the BOS to have a structure number assigned. Enter the inventory data and element level bridge inspection data in accordance with the SIM into WisDOT's Highway Structures Information System (HSIS) within 90 days of completing the field portion of the inspection. Continue to complete required inspections and data submittal at intervals according to the requirements of the NBIS and SIM.

(4) Maintain temporary structures and approaches in place until no longer needed. Unless the engineer directs otherwise, completely remove and dispose of as specified in 203.3.5; do not place on the finished surface.

526.5 Payment

Replace paragraph (2) with the following effective with the November 2025 letting.

(2) Payment for the Temporary Structure bid items is full compensation for providing a temporary structure including design and construction; for construction staking; for temporary shoring and other secondary structure items; for backfilling with structure backfill; for maintaining; and for removing when no longer needed. The department will pay 70 percent of the contract amount when open to traffic and the balance after structure removal and associated site restoration.

621 Landmark Reference Monuments

Remove Standard Specification 621 (Landmark Reference Monuments) effective with the November 2025 letting. Refer to updated information in standard specifications 680 and 682.

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643 Traffic Control

643.1 Description

Replace paragraph (1) with the following effective with the November 2025 letting.

(1) This section describes providing, maintaining, repositioning, and removing temporary traffic control devices as follows:

Drums	Warning lights	42-inch cones
Barricades type III	Connected arrow boards	Portable changeable message signs
Flexible tubular markers	Signs	Channelizing curb system
Speed feedback trailers	Connected work zone start and end location markers	

643.2.2 Department's Approved Products List (APL)

Replace paragraph (1) with the following effective with the November 2025 letting.

(1) Furnish materials from the APL as follows:

- Drums
- Barricades type III
- Flexible tubular marker posts including bases
- Warning lights and attachment hardware
- Channelizing curb systems
- Connected work zone start and end location markers
- Connected arrow boards
- Sign sheeting
- 42-inch cone assemblies
- Portable changeable message signs
- Speed feedback trailers

643.3 Construction

643.3.1 General

Add paragraphs (10), (11), (12) and (13) effective with the November 2025 letting.

(10) For connected devices provide a local specialist to respond to emergency situations within 2 hours of being notified. Equip local specialists with sufficient resources to correct deficiencies in the connected work zone devices.

(11) Prior to deployment, test all connected devices with the engineer to ensure the device is showing in the WisDOT approved data feed. Send an email to *DOTBTOworkzone@dot.wi.gov* to notify Bureau of Traffic Operations (BTO) that the devices have been turned on.

(12) Provide a WisDOT approved data feed from connected devices and the remote management software, updated at least every minute.

(13) If requested by the engineer, provide real-time status change alerts to a list of designated personnel via text or email or both. Send an alert each time a connected device is switched between operating modes which include the current operating mode, the previous operating mode, the date and time of the mode switch, and the location (latitude and longitude) of the device at the time of the mode switch in the alert.

643.3.3 Connected Arrow Boards

Revise subsection title, replace paragraph (3) and add paragraph (4) effective with the November 2025 letting.

(3) The connected arrow board may be switched between the following pattern displays per the plan:

- Blank
- Right arrow static
- Right arrow flashing
- Right arrow sequential
- Left arrow static
- Left arrow flashing
- Left arrow sequential
- Line flashing
- Bi-directional arrow flashing.

(4) When the connected arrow board is not displaying a pattern, the display shall be blank, and the connected arrow board transmits its status to the data feed. When a connected arrow board is switched to a pattern, the connected arrow board transmits its location and its current operating mode to the data feed.

643.3.7 Temporary Pavement Marking

Add paragraph (9) effective with the November 2025 letting.

(9) Install temporary markings on the final surface in the same location as permanent markings will be placed or as the plans show.

643.3.10 Connected Work Zone Start and End Location Markers

Add subsection effective with the November 2025 letting.

(1) Place work zone start location marker at the beginning of the work zone per plan or as the engineer directs. Clearly label the work zone start location marker so that it is easily distinguishable by field personnel.

(2) Place work zone end location marker at the end of the work zone per plan or as the engineer directs. Clearly label the work zone end location marker so that it is easily distinguishable by field personnel.

(3) Ensure the connected work zone start and end location markers operate continuously when deployed on the project.

(4) Ensure the work zone location markers and connected arrow board are from the same manufacturer.

(5) When the work zone start and end location markers are switched to the ON mode, verify the begin and end location markers transmit their location and identity as begin or end markers to the data feed.

(6) Switch the work zone start and end location markers to OFF mode when temporary traffic control is removed, and the normal traveled way is restored.

643.4 Measurement

643.4.1 Items Measured by the Day

Add paragraphs (3) and (4) effective with the November 2025 letting.

(3) The department will measure Traffic Control Connected Arrow Boards by day for the days the device is reporting correct data.

(4) The department will measure Traffic Control Connected Work Zone Start and End Location Markers by day per roadway segment for the days the devices are reporting correct data.

643.5 Payment

643.5.1 General

Replace paragraph (1) with the following effective with the November 2025 letting.

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

ITEM NUMBER	DESCRIPTION	UNIT
643.0300	Traffic Control Drums	DAY
643.0420	Traffic Control Barricades Type III	DAY
643.0500	Traffic Control Flexible Tubular Marker Posts	EACH
643.0600	Traffic Control Flexible Tubular Marker Bases	EACH
643.0650	Traffic Control Channelizing Curb System	LF
643.0700 - 0799	Traffic Control Warning Lights (type)	DAY
643.0810	Traffic Control Connected Arrow Boards	DAY
643.0900	Traffic Control Signs	DAY
643.0910	Traffic Control Covering Signs Type I	EACH
643.0920	Traffic Control Covering Signs Type II	EACH
643.1000	Traffic Control Signs Fixed Message	SF
643.1050	Traffic Control PCMS	DAY
643.1051	Traffic Control PCMS with TMC Communications	DAY
643.1070 - 1079	Traffic Control Cones (height)	DAY
643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY
643.1500	Traffic Control Speed Feedback Trailer	DAY
643.3100 - 3299	Temporary Marking Line (material/type) (width)	LF
643.3300 - 3399	Temporary Marking Crosswalk (material) 6-Inch	LF
643.3500 - 3599	Temporary Marking Arrow (material)	EACH
643.3600 - 3699	Temporary Marking Word (material)	EACH
643.3700 - 3799	Temporary Marking Raised Pavement Marker (type)	EACH
643.3800 - 3899	Temporary Marking Stop Line (material) 18-Inch	LF
643.3900 - 3959	Temporary Marking Diagonal (material) 12-Inch	LF

643.3960 - 3999	Temporary Marking Removable Mask Out Tape (width)	LF
643.4100	Traffic Control Interim Lane Closure	EACH
643.5000	Traffic Control	EACH

646 Pavement Marking

646.3.1.1 General Marking

Replace paragraph (7) with the following effective with the November 2025 letting.

(7) Apply marking to the width and color the bid item indicates. Distribute beads uniformly across the line. Provide a sharp cutoff for both sides and ends of the marking with a uniform cross-section. Achieve straight alignment, not to exceed a 3/8-inch variation in any 40-foot section of travelled way. Do not damage existing marking that will remain in place.

646.3.1.6.2 Retroreflectivity

Replace paragraph (1) with the following effective with the November 2025 letting.

(1) For grooved-in markings, the engineer will also evaluate the percent failing retroreflectivity at the end of the proving period. Ensure that the 180-day reflectivity, in millicandelas/lux/m^2, meets or exceeds the following:

MATERIAL	COLOR	180 DAY DRY RETROREFLECTIVITY
Epoxy	White	150
	Yellow	100
Wet Reflective Epoxy	White	250
	Yellow	150
Permanent Tape	White	400
	Yellow	335

646.3.2.4 Black Epoxy

Replace paragraph (1) with the following effective with the November 2024 letting.

(1) Apply black epoxy in a grooved slot directly after the white marking. Apply epoxy at a wet mil thickness of 20. Apply black aggregate at or exceeding 25 pounds per gallon of epoxy. Do not apply glass beads to black epoxy.

650 Construction Staking

650.3.12 Supplemental Control Staking

Replace paragraph (2) with the following effective with the November 2025 letting.

(2) Document and provide to the engineer complete descriptions and reference ties of the control points, alignment points, and benchmarks to allow for quick reestablishment of the plan data at any time during construction and upon project completion. Document additional control on department form DT1291 as described in CMM 710, table 710-1.

680 Public Land Survey Monuments

Add section 680 (Public Land Survey Monuments) effective with the November 2025 letting.

680.1 Description

(1) This section describes perpetuating US Public Land Survey System (USPLSS) monuments.

680.2 Materials

(1) Furnish magnetic survey nails with center point a minimum of 2-1/2 inches long or engineer approved alternative.

(2) Furnish minimum 3/4-inch reinforcement or 1 inch outside diameter (OD) iron pipe at least 24 inches long.

(3) Furnish plastic survey marker cap with lettering that reads “Witness Monument”.

(4) Use alternative materials if requested and furnished by the county surveyor.

680.3 Construction

680.3.1 General

(1) Perform work under the direction and control of a professional land surveyor registered in the state of Wisconsin, following Wisconsin Administrative Code A-E 7 (https://docs.legis.wisconsin.gov/code/admin_code/a_e/7).

(2) Preserve existing USPLSS monuments and witness monuments (ties) within the construction limits in their original position until monuments are verified and sufficiently tied off.

680.3.2 Pre-Construction

(1) Notify the county surveyor at least 30 days prior to start of construction operations about all USPLSS monuments within the construction limits that might be disturbed.

(2) Obtain the existing USPLSS Monument Record from the county surveyor. Verify existing monuments and witness monuments are in place and undisturbed.

(3) Replace witness monuments that are missing or that could be disturbed by construction operations. Locate new witness monuments near the USPLSS monument but outside the construction limits. Submit a monument record as specified in 680.3.5.

(4) Temporarily mark the location of all witness monuments to protect them during construction.

680.3.3 Removals

(1) Remove or abandon existing monument and monument cover that interfere with construction operations. Remove and dispose of surplus excavation and materials as specified in 205.3.12.

680.3.4 Post-Construction

(1) Verify the location of monuments and witness monuments when construction operations are complete.

(2) Set new monuments and witness monuments where necessary. Recess magnetic survey nails 1/4 inch below the pavement surface for monuments located in pavement. Use reinforcement or iron pipe for monuments not in pavement and for witness monuments. Locate new witness monuments near the USPLSS monument and outside the roadbed. Install plastic caps on witness monuments.

(3) Install marker posts next to all witness monuments if required and supplied by the county surveyor.

(4) Omit setting monuments in the pavement if approved by the department's regional survey coordinator and county surveyor due to traffic or safety concerns.

(5) Submit a monument record as specified in 680.3.5.

680.3.5 Monument Records

(1) Submit a monument record on department form DT1291 to the county surveyor at locations where monuments were set. Provide a copy to the engineer and regional survey coordinator.

680.4 Measurement

(1) The department will measure bid items under this section as each individual monument acceptably completed.

680.5 Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
680.0100	Public Land Survey Monument Verify and Reset	EACH

(2) Payment for the Public Land Survey Monument Verify and Salvage bid item is full compensation for providing all materials; for coordinating with county surveyors; for obtaining existing monument records; for verifying the existing location of monuments and witness monuments; for removing or abandoning existing monuments and monument covers; for resetting monuments; for setting or resetting temporary and permanent witness monuments; and for submitting monument records.

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682 Geodetic Survey Monuments

Add section 682 (Geodetic Survey Monuments) effective with the November 2025 letting.

682.1 Description

(1) This section describes salvaging geodetic survey discs and constructing geodetic survey monuments.

682.2 Materials

(1) Furnish materials conforming to the following:

Concrete 501
Reinforcement 505.2
Foundation backfill 520.2

(2) Furnish grade A concrete as modified in 716. Provide QMP for class III ancillary concrete as specified in 716.

682.3 Construction

(1) Contact the WisDOT Geodetic Surveys Unit at (866) 568-2852 or "geodetic@dot.wi.gov" as required below.

682.3.1 Salvage Geodetic Survey Discs

(1) Remove and salvage geodetic survey discs from existing structures or survey monuments being removed at the locations shown in the plan.

(2) Notify the WisDOT Geodetic Surveys Unit 7 calendar days prior to removal operations.

(3) Ship or deliver salvaged discs to following address:

WisDOT Bureau of Technical Services

Geodetic Surveys Unit

3502 Kinsman Boulevard

Madison, WI 53704

Provide a tracking number to the Geodetic Surveys Unit upon shipment or contact the Geodetic Surveys Unit to schedule in-person delivery.

682.3.2 Geodetic Survey Monuments

682.3.2.1 Monument Location

(1) Stake the approximate location of monuments provided in the plan and contact the WisDOT Geodetic Surveys Unit 30 days prior to excavating holes for field verification and delivery of department furnished geodetic survey discs.

682.3.2.2 Placing Monuments

(1) Excavate holes for monuments by use of a circular auger at the size and depth the plans show or as the engineer directs.

(2) Remove and dispose of surplus excavation and materials as specified in 205.3.12.

(3) Fill holes with concrete and strike off flush with the ground surface. Place circular forms and steel reinforcement in the concrete as the plans show. Place geodetic survey discs on monuments while the concrete is still plastic.

682.3.2.3 Protecting and Curing

(1) Cure exposed portions of cast in place concrete monuments as specified in 415.3.12 except the contractor may use curing compound conforming to 501.2.8.

(2) Protect placed concrete monuments as specified for concrete pavement as specified in 415.3.14

(3) Protect cast in place concrete monuments from freezing for 7 days.

682.4 Measurement

(1) The department will measure bid items under this section as each individual monument acceptably completed.

682.5 Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
682.0100	Salvage Geodetic Survey Disc	EACH
682.0200	Geodetic Survey Monument	EACH

(2) Payment for the Salvage Geodetic Survey Disc bid item is full compensation for removing and salvaging; and shipping or delivering the disc to the Geodetic Surveys Unit. Removing existing survey monuments will be paid separately under the Removing Concrete Bases bid item. Removing existing survey marker posts will be paid separately under the Removing Delineators and Markers bid item.

(3) Payment for the Geodetic Survey Monument bid item is full compensation for staking; providing concrete; providing steel reinforcement; for placing department-furnished geodetic discs; and for excavating and backfilling.

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710 General Concrete QMP

710.3 Certification Requirements

Replace paragraph (1) and add paragraph (2) effective with the November 2025 letting.

(1) Have a person certified from the Highway Technician Certification Program Portland Cement Concrete Technician 1 (HTCP - PCCTEC-1) or Assistant Certified Technician Program - Portland Cement Concrete (ACT-PCC) working under a certified technician, on the project site, prepared and equipped to perform required sampling and testing whenever placing concrete.

(2) The department will have a certified HTCP Portland Cement Concrete Mix Design Certification (PCC MDC) technician to review and approve concrete mixes.

710.4 Concrete Mixes

Replace subsection with the following effective with the November 2025 letting.

(1) The contractor is responsible for mix performance.

(2) At least 7 business days before producing concrete, document that materials conform to 501 unless the engineer allows or individual QMP specifications provide otherwise. Include the following:

1. For mixes: quantities per cubic yard expressed as SSD weights and net water, water to cementitious material ratio, air content, and SAM number.
2. For cementitious materials and admixtures: type, brand, and source.
3. For aggregates: absorption, oven-dried specific gravity, SSD bulk specific gravity, wear, soundness, light weight pieces, freeze thaw test results if required, and air correction factor. Submit component aggregate gradations, aggregate proportions, and target combined blended aggregate gradations using the following:
    - DT2220 for combined aggregate gradations.
    - DT2221 for optimized aggregate gradations.
4. For optimized concrete mixtures:
    - Complete the worksheets within DT2221 according to the directions.
    - Ensure the optimized aggregate gradations and the optimized mix design conform to WisDOT specifications and pass the built-in tests within DT2221.
    - Verify slip-form mixture workability and conformance to specifications through required trial batching.
    - Submit the completed DT2221 to the engineer electronically. Include the trial batch test results with the mix design submittal.
5. For high early strength (HES) concrete mixtures required by contract, complete the HES mix modification section in the DT2220 or DT2221 form.

(3) Document mix adjustments daily during concrete production.

(4) Prepare, notify, and submit mixture design modifications to the engineer. Do not place material until the documentation is submitted and, when required, written approval of the mixture design modifications.

(5) Report concrete mix design modifications as classified in levels as specified in table 710-1.

TABLE 710-1 MIX DESIGN MODIFICATION NOTIFICATION

NOTIFICATION	LEVEL I	LEVEL II	NEW MIX DESIGN DURING PROJECT
Prepare, notify, and submit mix design to Engineer	Prior to use	3 business days prior to use	5 business days prior to use
Approval required before placement	No	Yes	Yes

(6) A mix design modification is when any modification occurs for a specific level as specified in table 710-2.

(7) Dependent on the modification performed, documentation is required to be submitted to the engineer as specified in table 710-3.

(8) For HES concrete, conform as specified in table 710-4.

(9) HES concrete is not eligible for 28-day strength incentives.

(10) Submit concrete mix designs into MRS as specified in 701.1.2.7.

TABLE 710-2 MATERIAL MIX DESIGN MODIFICATIONS

MODIFICATION TYPE		LEVEL I	LEVEL II	NEW MIX DESIGN DURING PROJECT
Change in:	Water source	X		
	Cement source, type, or brand			X
	Total cementitious [1]			X
	Aggregate blend	X		
	Aggregate source			X
	SCM replacement rate		X	
	SCM type and supplier			X
	Fly ash source (different class)			X
	Fly ash source (same class for pavements and cast-in-place barriers)		X	
	Fly ash source (same class for structures)			X
	Slag source (same grade)		X	
	Chemical admixture manufacturer or product name [2]			X
Removal of:	SCM			X
	Type B or Type D chemical admixture	X [3]	X [4]	
Addition of:	Non-fading, color pigment	X		
	Type B or Type D chemical admixture	X [3]	X [4]	
	New SCM			X

[1] If not HES/SHES concrete.

[2] Not including Type B or Type D chemical admixture.

[3] Furnished from the APL.

[4] Not furnished from the APL.

TABLE 710-3 MIX DESIGN MODIFICATION DOCUMENTATION

NEW REQUIRED DOCUMENTATION	LEVEL I	LEVEL II	NEW MIX DESIGN DURING PROJECT
Results from trial batching if required			X
Amendment to the quality control plan	X	X	X
Water source name and report [1]	X		
Cement mill certification			X
WisDOT aggregate quality report			X
SCM mill certification		X	X
Chemical additive product data sheet	X	X	X
Updated DT2220 or DT2221 form	X	X	
New DT2220 or DT2221 form			X
New mixture ID: Contractor ID and WisDOT ID	X	X	X
New maturity curve	X [2]	X	X
New lot/sublot layout [3]		X [4]	X

[1] Water for concrete report conforming to 501.2.6 for private wells or surface water sources.

[2] Required only when using a retarder.

[3] Required for HES concrete.

[4] Required when changing the SCM replacement rate.

TABLE 710-4 OPTIONS FOR HES CONCRETE

SCENARIO	MIXTURE MODIFICATION	
When the contract requires, or the HES is directed by the department	OPTION 1 [1]	Add 94 to 282 lb/cy of cement [2]
	OPTION 2	Use Type III cement
When the engineer allows HES when requested by the contractor in writing	Add up to 282 lb/cy of cement [1.2]	

[1] Adjust water to maintain workability without raising the w/cm ratio.

[2] Add to a previously accepted mixture.

710.5.6.2 Contractor Control Charts

710.5.6.2.1 General

Replace subsection with the following effective with the November 2025 letting.

(1) Test aggregate gradations during concrete production except as allowed for small quantities under 710.2. Perform required contractor testing using non-random samples.

(2) Sample aggregates from either the conveyor belt or from the working face of the stockpiles.

(3) Complete aggregate testing as specified in table 710-5. Submit one pre-placement test within five days before anticipated placement. Include this gradation on the control charts.

(4) Report gradation test results and provide control charts to the engineer within 1 business day of obtaining the sample. Submit results to the engineer and electronically into MRS as specified in 701.1.2.7.

(5) Conduct aggregate testing at the minimum frequency specified in table 710-5 for each mix design, except as allowed for small quantities in 710.2. The contractor's concrete production tests can be used for the same mix design on multiple contracts.

TABLE 710-5 QC AGGREGATE TESTING FREQUENCY

CONCRETE CLASSIFICATION	PRE-PLACEMENT TESTING	PLACEMENT TESTING	
Class I: Pavement	One pre-placement test per aggregate source	Hand Placement: ≤ 250 CY > 250 CY Slip Formed Placement [1] ≤ 1500 CY > 1500 CY	One test per cumulative 250 CY One test per day One test per day Two tests per day
Class I: Structures [2], [3], [4]		One test per cumulative 150 CY, maximum one test per day	
Class I: Cast-in Place Barrier		≤ 250 CY > 250 CY	One test per cumulative 250 CY One test per day
Class II: Base	One pre-placement test per aggregate source	One test per calendar week of production	
Class II: Structure Repair - Joints		One test per cumulative 150 CY, maximum one test per day	
Class II: Concrete Overlay			
Class II: Pavement Repair		One test per 400 CY, minimum one test per 10 business days, maximum one test per day	
Class II: Pavement Replacement			
Class II: Base Patching			
Class II: Ancillary			
Class II: Structure Repair – Curb & Surface [5]		Preplacement testing only	

[1] Frequency is based on project daily production rate.

[2] Aggregate gradation testing must be performed on a per contract basis. If multiple structures are on the same contract and use the same aggregate source, then the samples must be collected based on cumulative concrete contract quantities within the same concrete classification.

[3] WTM T255 (Fine and Coarse) required for each aggregate sample.

[4] Calculate trial batch weights for each mix design when production begins and whenever the moisture content of the fine or coarse aggregate changes by more than 0.5 percent, adjust the batch weights to maintain the design w/cm ratio.

[5] Aggregate gradation must meet the gradation previously approved by the engineer.

710.5.6.3 Department Acceptance Testing

Replace subsection with the following effective with the November 2025 letting.

(1) Department testing frequency is based on the quantity of each mix design placed under each individual WisDOT contract as specified table 710-6. Aggregate gradation testing must be performed on a per contract basis.

(2) The department will split each sample, test for acceptance, and retain the remainder for a minimum of 10 calendar days.

(3) The department will obtain the sample and deliver to the regional testing lab in the same day. The department will report gradation test results to the contractor within 1 business day of being delivered to the lab. The department and contractor can agree to an alternative test result reporting timeframe. Document alternative timeframes in the contractor's quality control plan.

(4) Additional samples may be taken at the engineer's discretion due to a changed condition.

(5) If multiple bid items on the same contract use the same aggregate source, then the samples must be collected based on cumulative concrete contract quantities within the same concrete classification.

(6) Department will test small quantities at the minimum frequency specified in table 710-7.

TABLE 710-6 QV AGGREGATE TESTING FREQUENCY

CONCRETE CLASSIFICATION	PLACEMENT TESTING
Class I: Pavement	One test per placement day for first 5 days of placement. - If all samples are passing, reduced testing frequency is applied. - Reduced frequency: One test per calendar week of placement
Class I: Structures	One test per 250 CY placed. - Minimum of one test per contract for substructure - Minimum of one test per contract for superstructure
Class I: Cast-in-Place Barrier	One test per 500 CY placed
Class II: Concrete Overlay	One test per 250 CY - Maximum one test per day
Class II: Base	No minimum testing
Class II: Structure Repair	
Class II: Pavement Repair	
Class II: Pavement Replacement	
Class II: Base Patching	
Class II: Ancillary	

TABLE 710-7 QV AGGREGATE TESTING FREQUENCY FOR SMALL QUANTITIES

CONCRETE CLASSIFICATION	PLACEMENT TESTING
Class I: Pavement	One test on the first day of placement.
Class I: Structures	
Class I: Cast-in-Place Barrier	

710.5.7 Corrective Action

710.5.7.1 Optimized Aggregate Gradations

Replace subsection with the following effective with the November 2025 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 or limits listed in the additional requirements for optimized aggregate gradation in 501.2.7.4.2 table 501-4, notify the other party immediately and do the following:

Option A:

1. Perform corrective action documented in the QC plan or as the engineer approves.
2. Document and provide corrective action results to the engineer as soon as they are available.
3. Department will conduct two tests within the next business day after corrective action. Department will provide test results to contractor after each test is complete.
4. 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.
5. If blended aggregate gradations are not within the tarantula curve limits by the second department test:
   - If the contract does not require optimized aggregate gradation under 501.2.7.4.2.1(2), stop concrete production and submit either a modified optimized aggregate gradation mix design or a new optimized aggregate gradation mix design or a new combined aggregate gradation mix design.
   - If the contract requires optimized aggregate gradations under 501.2.7.4.2.1(2), stop concrete production and submit a modified optimized aggregate gradation mix design or a new optimized aggregate gradation mix design.

Option B:

1. Submit a modified optimized aggregate gradation mix design or a new optimized aggregate gradation mix design.
2. Restart control charts for new mix design.

(2) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a modified mix design or a new mix design.

(3) Both the department and contractor must sample and test aggregate of the modified mix design or a new mix design at the frequency specified in 710.5.6.1.

710.5.7.2 Combined Aggregate Gradations

Replace subsection with the following effective with the November 2025 letting.

(1) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by less than or equal to 1.0 percent on a single sieve size, do the following:

1. Notify the other party immediately.
2. Perform corrective action documented in the QC plan or as the engineer approves.
3. Document and provide corrective action results to the engineer as soon as they are available.
4. The department will conduct two tests within the next business day after corrective action is complete.
5. If blended aggregate gradations are within the combined aggregate gradation 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.
6. If blended aggregate gradations are not within the combined aggregate gradation limits by the second department test, stop concrete production and submit a modified mix design or a new mix design.

(2) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a modified mix design or a new mix design.

(3) Both the department and contractor must sample and test aggregate of the modified mix design or a new mix design at the frequency specified in 710.5.6.1.

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715 QMP Concrete Pavement, Cast-in-Place Barrier and Structures

715.3.1.2 Lot and Sublot Definition

715.3.1.2.1 General

Replace subsection with the following effective with the November 2025 letting.

(1) Designate the location and size of all lots before placing concrete. Ensure that no lot contains concrete of more than one mix design or placement method defined as follows:

Mix design change A modification to the mix requiring the engineer's approval under 710.4(5).

For paving and barrier mixes, follow 710.4(4) and 710.4(5) for concrete mixture design modifications.

Placement method Either slip-formed, not slip-formed, or placed under water.

(2) Lots and sublots include ancillary concrete placed integrally with the class I concrete.

715.3.1.2.3 Lots by Cubic Yard

Replace paragraph (3) with the following effective with the November 2025 letting.

(3) An undersized lot is eligible for incentive payment under 715.5 if the lot has 4 or more sublots for that lot.

715.3.2 Strength Evaluation

715.3.2.1 General

Replace subsection with the following effective with the November 2025 letting.

(1) The department will make pay adjustments for strength on a lot-by-lot basis using the compressive strength of contractor QC cylinders or the flexural strength of contractor QC beams.

(2) The department will evaluate the sublot for possible removal and replacement if the 28-day sublot average strength is:

- Pavement (Compressive): < 2500 psi
- Pavement (Flexural): < 500 psi
- Structure: < f'c - 500 psi [1]
- Cast-in-Place Barrier: < f'c - 500 psi [1]

[1] f'c is design strength found in plans or specials.

715.5 Payment

715.5.1 General

Replace paragraph (4) and add paragraphs (8) and (9) effective with the November 2025 letting.

(4) The department will adjust pay for each lot using PWL of the 28-day sublot 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 super structures and barrier, or as shown in the plan details.
- Compressive strength of 3500 psi for substructures and culverts, or as shown in the plan details.

(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.

(8) If the contractor combines concrete of varying specified strengths in a single lot/sublot, the highest specified strength of the related concrete shall be used to calculate pay incentive/disincentive.

(9) The department will apply one price adjustment to a given quantity of material. If the quantity in question is subject to more than one nonconforming test, apply the adjustment with the greater price reduction. In the absence of exact quantities affected by the sublot test results, pay reductions will be applied to the entire sublot.

715.5.4 Pay Adjustments for Nonconforming Air Content, Temperature, and Delivery Time

Add subsection 715.5.4 (Pay Adjustments for Nonconforming Air Content, Temperature, and Delivery Time) effective with the November 2025 letting.

(1) The department will adjust pay for each sublot with nonconforming QC air content and temperature test results as specified in table 715-2 and table 715-3. If the quantity in question is subject to more than one of the following conditions, apply the adjustment with the greater price reduction.

(2) For high temperatures, the engineer may consider the effectiveness of the contractor's temperature control plan and the contractor's compliance with their temperature control plan before taking a price reduction.

(3) A 25% price reduction to the concrete invoice price will be applied if concrete is placed after the delivery time exceeds the limit specified in 501.3.5.2.

TABLE 715-2 PRICE REDUCTIONS FOR NONCONFORMING AIR CONTENT

LIMITS (%)		PERCENT PRICE REDUCTION OF THE CONTRACT UNIT PRICE
Above Specification	>= 0.5 [1]	10
	0.1 to 0.4 [1]	5
Below Specification	0.1 to 0.5	20
	0.6 to 1.0	30
	> 1.0	50 or remove and replace

[1] Evaluate the strength data. If the strengths are acceptable, do not take a price reduction for high air content. Contractor is responsible to provide additional strength data, if necessary.

TABLE 715-3 PRICE REDUCTIONS FOR NONCONFORMING TEMPERATURE

LIMITS (F) [1]	PERCENT PRICE REDUCTION OF THE CONTRACT UNIT PRICE
<= 5	10
> 5	25

[1] Applies only for Concrete Structures and Cast-in-Place Barrier.

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716 QMP Ancillary Concrete

716.2 Materials

716.2.1 Class II Concrete

Replace paragraph (2) with the following effective with the November 2025 letting.

(2) Perform random QC testing at the following frequencies:

1. Test air content, temperature, and slump a minimum of once per 100 cubic yards for each mix design and placement method.
2. Cast one set of 3 cylinders per 200 cubic yards for each mix design and placement method. Cast a minimum of one set of 3 cylinders per contract for each mix design and placement method. Random 28-day compressive strength cylinders are not required for HES or SHES concrete.
3. For deck overlays, perform tests and cast cylinders once per 50 cubic yards of grade E concrete placed.
4. For concrete base, one set of tests and one set of cylinders per 250 cubic yards.

The department will allow concrete startup test results for small quantities as specified in 710.2(1). Cast one set of 3 cylinders if using startup testing for acceptance.

716.2.2 Class III Concrete

Replace paragraph (1) with the following effective with the November 2025 letting.

(1) Acceptance of class III concrete is based on DT2220/ DT2221 certification page. Submit the certificate of compliance at least 3 business days before producing concrete along with the initial concrete mix documentation as required under 710.4(2).

Bid Items

600 Bid Items

Add the following bid items effective with the November 2025 letting.

611.0613	Inlet Covers Type DW	EACH

Remove the following bid items effective with the November 2025 letting.

621.0100	Landmark Reference Monuments	EACH
621.1100	Landmark Reference Monuments and Cast-Iron Covers	EACH
621.1200	Landmark Reference Monuments and Aluminum Covers	EACH

Remove the following bid items effective with the November 2025 letting.

643.0405	Traffic Control Barricades Type I	DAY
643.0410	Traffic Control Barricades Type II	DAY
643.0800	Traffic Control Arrow Boards	DAY

Add the following bid items effective with the November 2025 letting.

643.0810	Traffic Control Connected Arrow Boards	DAY
643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY

Add the following bid items effective with the November 2025 letting.

680.0100	Public Land Survey Monument Verify and Reset	EACH
682.0100	Salvage Geodetic Survey Disk	EACH
682.0200	Geodetic Survey Monuments	EACH

ERRATA

204.3.1.3 Salvaging or Disposal of Materials

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(2) Dispose of concrete, stone, brick, and other material not designated for salvage as specified for disposing of materials under 203.3.5.

204.3.2.3 Removing Buildings

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(2) Buildings removed and materials resulting from building removal become the contractor's property unless the contract specifies otherwise. Dispose of unclaimed and removed material as specified for disposing of materials in 203.3.5.

335.3.2 Rubblizing

Replace paragraph (6) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(6) Remove reinforcing steel exposed at the surface by cutting below the surface and disposing of the steel as specified in 203.3.5. Do not remove unexposed reinforcing steel.

335.3.3 Compacting

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(2) Remove loose asphaltic patching material, joint fillers, expansion material, or other similar materials from the compacted surface. Also remove pavement or patches that have a maximum dimension greater than or equal to 6 inches that are either not well seated or projecting more than one inch. Dispose of removed material as specified in 203.3.5.

460.3.3.2 Pavement Density Determination

Replace change description annotation with the following to revise implementation date. This change is effective with the November 2025 letting.

Add information to 460.3.3.2(1) and (3). Add reference to CMM, WTM, and WTP H-002. WTP H-002 contains the sublot layouts formerly in CMM 815. Definition of a lot is now defined here (460.3.3.2(3)) instead of CMM. This change was implemented via ASP-6 with the February 2024 letting.

602.3.6 Concrete Rumble Strips

Replace paragraph (5) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

(5) At the end of each workday, move equipment and material out of the clear zone and sweep or vacuum the traveled way pavement and shoulder areas. Sweep away or vacuum up milling debris before opening adjacent lanes to traffic. Dispose of waste material as specified in 203.3.5; do not place on the finished shoulder surface.

604.2 Materials

Replace paragraph (1) with the following information to remove line and link for crushed aggregate effective with the November 2024 letting. The crushed aggregate gradation information for slope paving is now found in 604.2(3).

(1) Furnish materials conforming to the following:

Water 501.2
Select crushed material 312.2
Concrete 501
Reinforcement 505
Expansion joint filler 415.2.3
Asphaltic materials 455.2

ADDITIONAL SPECIAL PROVISION 7

A. Reporting 1st Tier and DBE Payments During Construction

1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
5. 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 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) for projects with a LET date on or before December 2024 and AASHTOWare Project Civil Rights and Labor (AWP CRL) for projects with a LET date on or after January 2025 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 or AWP CRL. 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 or AWP CRL 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, via the online AWP Knowledge Base, or by telephone. to schedule CRCS specific training. The AWP Knowledge Base is at: https://awpkb.dot.wi.gov/

(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) For firms wishing to export payroll/labor data from their computer system, have their payroll coordinator contact:

- For CRCS: Paul Ndon at paul.ndon@dot.wi.gov. Information about exporting payroll/labor data. Not every contractor's payroll system can produce 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
- For AWP CRL: Contact AWP Support at awpsupport@dot.wi.gov. Additional information can be found in the AWP Knowledge Base at https://awpkb.dot.wi.gov/Content/crl/Payrolls-PrimesAndSubs/PayrollXMLFileCreationProcess.htm

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

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 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).

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. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), 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 basic hourly 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. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act (40 U.S.C. 3141(2)(B)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. 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 must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. 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 classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH–1321) must 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. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in 29 CFR part 1, a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must 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 be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate 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 used 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) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) 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 will be sent by the contracting officer by email to *DBAconformance@dol.gov*. 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.

(4) 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 will, by email to *DBAconformance@dol.gov*, 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.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must 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.

d. *Fringe benefits not expressed as an hourly rate.* 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 may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* 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, in accordance with the criteria set forth in § 5.28, 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.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and 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.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

3. Records and certified payrolls (29 CFR 5.5)

a. *Basic record requirements* (1) *Length of record retention.* All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; 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 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph 1.e. of this section 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 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act, the contractor must 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.

(4) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. *Certified payroll requirements* (1) *Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (*e.g.,* the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH–347 or in any other format desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division website at *https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347/.pdf* or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working 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; and

(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(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) *Use of Optional Form WH–347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* 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. 3729.

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, 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, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under 29 CFR part 6 any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices* (1) *Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform 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 (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must 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, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must 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 this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

c. 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 journeyworkers 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 must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 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. a. By entering into this contract, the contractor certifies that neither it 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 40 U.S.C. 3144(b) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of 40 U.S.C. 3144(b) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, 18 U.S.C. 1001.

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or 29 CFR part 1 or 3; or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or 29 CFR part 1 or 3.

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 watchpersons 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 and interest from the date of the underpayment. 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 watchpersons 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.

* $31 as of January 15, 2023 (See 88 FR 88 FR 2210) 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

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, 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 that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or

d. Informing any other person about their rights under CWHSSA or this part.

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 long-standing 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 200.327.

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 200.327.

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 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).

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.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) 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;

(2) 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

(3) 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)

b. 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.

* * * * *

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:

County	%	County	%	County	%
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.

DOMESTIC MATERIALS PREFERENCE PROVISION

Domestic Materials Preference (in accordance with the Buy America Act per 23 CFR 635.410, and the Build America-Buy America Act (BABA) per 2 CFR Part 184, and 2 CFR Part 200) shall be articles, materials, or supplies permanently incorporated in this project as classified in the following four categories, and as described in the Construction and Materials Manual (CMM):

1. Iron and Steel

   To be considered domestic, all steel and iron products used, and all products predominantly manufactured from steel or iron must be produced in the United States in accordance with the steel and iron product standards in 23 CFR 635.410.

   This includes smelting, coating, bending, shaping, and all other manufacturing processes performed on the product. Coating includes all processes which protect or enhance the value of the material to which the coating is applied.

Products that are predominantly iron or steel or a combination of both as defined in 23 CFR 635.410 are considered Steel and Iron products and must comply with this section.

2. Construction Materials

   To be considered domestic, all construction materials used must be produced in the United States in accordance with the construction material standards in 2 CFR 184.6:

   - Non-ferrous metals: All manufacturing processes, from initial smelting or melting through final shaping, coating, and assembly, occurred in the United States.
   - Plastic and polymer-based products: All manufacturing processes, from initial combination of constituent plastic or polymer-based inputs, or, where applicable, constituent composite materials, until the item is in its final form, occurred in the United States.
   - Glass. All manufacturing processes, from initial batching and melting of raw materials through annealing, cooling, and cutting, occurred in the United States.
   - Fiber optic cable (including drop cable): All manufacturing processes, from the initial ribboning (if applicable), through buffering, fiber stranding and jacketing, occurred in the United States. All manufacturing processes also include the standards for glass and optical fiber, but not for non-ferrous metals, plastic and polymer-based products, or any others.
   - Optical fiber: All manufacturing processes, from the initial preform fabrication stage through the completion of the draw, occurred in the United States.
   - Lumber: All manufacturing processes, from initial debarking through treatment and planning, occurred in the United States.
   - Drywall: All manufacturing processes, from initial blending of mined or synthetic gypsum plaster and additives through cutting and drying of sandwiched panels, occurred in the United States.
   - Engineered wood: All manufacturing processes from the initial combination of constituent materials until the wood product is in its final form, occurred in the United States.

3. Manufactured Products

   To be considered domestic, all manufactured products used must be produced in the United States as defined in 23 CFR 635.410(c)(1)(vii):

   - For projects with let dates on or after October 1, 2025, the final step in the manufacturing process must occur in the United States.
   - For projects with let dates on or after October 1, 2026, the final step in the manufacturing process must occur in the United States and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States must be greater than 55 percent of the total cost of all components of the manufactured product.

Manufactured products means articles, materials, or supplies that have been processed into a specific form and shape, or combined with other articles, materials, or supplies to create a product with different properties than the individual articles, materials, or supplies. If an item is classified as an iron or steel product, an excluded material, or construction material, then it is not a manufactured product. An article, material, or supply classified as a manufactured product may include components that are iron or steel

products, excluded materials, or construction materials. Mixtures of excluded materials delivered to a work site without final form for incorporation into a project are not a manufactured product.

Items that consist of two or more construction materials that have been combined together through a manufacturing process, and items that include at least one construction material combined with a material that is not a construction material (including steel/iron) through a manufacturing process are treated as manufactured products, rather than as construction materials.

Products that are classified as predominantly iron or steel do not meet the definition of a manufactured product and must comply with section 1.

With respect to precast concrete products **that are classified as manufactured products**, components of precast concrete products that consist wholly or predominantly of iron or steel or a combination of both shall meet the requirements of section 1. The cost of such components shall be included in the applicable calculation for purposes of determining whether the precast concrete product is produced in the United States.

With respect to intelligent transportation systems and other electronic hardware systems that are installed in the highway right of way or other real property **and classified as manufactured products**, the cabinets or other enclosures of such systems that consist wholly or predominantly of iron or steel or a combination of both shall meet the requirements of section 1. The cost of cabinets or other enclosures shall be included in the applicable calculation for purposes of determining whether systems referred to in the preceding sentence are produced in the United States.

4. Temporary and Excluded Materials

> Temporary materials, and excluded materials meeting the definition of Section 70917(c) Materials as defined in 2 CFR 184, do not have any domestic materials requirements. Section 70917(c) Materials means cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives. Mixtures of excluded materials delivered to a work site without final form for incorporation into a project are not a manufactured product.

The classification of an article, material, or supply as falling into one of the categories listed in this section will be made based on its status at the time it is brought to the work site for incorporation into the project. Except as otherwise provided, an article, material, or supply incorporated into an infrastructure project must meet the Domestic Material Preference for only the single category in which it is classified.

Requirements do not preclude a minimal use of foreign steel and iron provided the cost of such materials do not exceed 0.1 percent (0.1%) of the total contract cost or $2500 whichever is greater. The total contract cost is the contract amount at award.

For each iron or steel product subject to meeting domestic materials requirements, that doesn't fully meet Buy America Act requirements, the following documentation must be provided by the Contractor to verify the foreign steel value. Ensure the threshold is not exceeded and place the documentation in the project files.

- Pay Item,
- Description of associated foreign iron or steel product, or component,
- Invoiced cost of associated foreign iron or steel product, or component, and
- Current cumulative list of all foreign iron or steel products with the total dollar amount of foreign products in relation to the total contract amount.

The minimal use of foreign iron or steel under the minimal usage threshold must be approved by the Engineer prior to incorporation into the project and any associated payment under the contract. The use of foreign iron or steel under the minimal usage threshold does not need to be approved by FHWA. This amount is not considered a waiver to the domestic materials requirements. The Contractor must ensure that the minimal usage amount is not exceeded.

The contractor shall take actions and provide documentation conforming to CMM 228.5 to ensure compliance with this Domestic Material provision.

https://wisconsindot.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, construction materials, and manufactured products conform to this domestic material provision.

Form DT4567 is available at: https://wisconsindot.gov/Documents/formdocs/dt4567.docx

Attach a list of foreign iron or steel and their associated costs to the certification form using the Domestic Material Exemption Tracking Tool, available at:

https://wisconsindot.gov/hccidocs/contracting-info/buy-america-exemption-tracking-tool.xlsx

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. Itis 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
- 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

"General Decision Number: WI20260010 01/02/2026

Superseded General Decision Number: WI20250010

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)

Modification Number	Publication Date
0	01/02/2026

BRWI0001-002 06/01/2025

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

	Rates	Fringes
BRICKLAYER	$ 40.09	28.10

BRWI0002-002 06/01/2025

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 48.60	29.31

BRWI0002-005 06/01/2025

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 46.01	29.31

BRWI0003-002 06/01/2024

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

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

BRWI0004-002 06/01/2025

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes

BRICKLAYER.....$ 44.71 28.90

BRWI0006-002 06/01/2025

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

	Rates	Fringes
BRICKLAYER	$ 39.36	28.83

BRWI0007-002 06/01/2025

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.34	29.49

BRWI0008-002 06/01/2025

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 45.72	27.42

BRWI0011-002 06/01/2024

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

BRWI0019-002 06/01/2025

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

	Rates	Fringes
BRICKLAYER	$ 39.50	28.69

BRWI0034-002 06/01/2025

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.17	28.66

CARP0068-011 05/05/2025

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	$ 47.57	31.17
PILEDRIVERMAN	$ 47.71	30.98

CARP0231-002 06/01/2025

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

	Rates	Fringes
CARPENTER	$ 45.46	31.52

CARP0310-002 06/01/2025

ADAMS, ASHLAND, BAYFIELD (Eastern 2/3), FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, PRICE, SHAWANO (Western Portion of the County), TAYLOR, VILAS, AND WOOD COUNTIES

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP0314-001 06/02/2025

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

	Rates	Fringes
Carpenter	$ 42.45	28.78
Piledrivermen	$ 44.45	28.78

CARP0361-004 05/05/2025

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 46.82	31.92

CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
Carpenter	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0955-002 06/02/2025

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP1056-002 06/01/2024

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

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

CARP1074-002 06/02/2025

BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. of Hwy. 65), AND WASHBURN

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP1143-002 06/02/2025

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

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP1146-002 06/02/2025

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP2337-009 06/02/2025

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

	Rates	Fringes
PILEDRIVERMAN	$ 44.39	34.79

ELEC0014-002 05/25/2025

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, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	$ 44.29	25.21

ELEC0014-007 05/25/2025

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

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	$ 31.17	20.08

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

ELEC0127-002 06/01/2025

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	$ 50.01	28.4

ELEC0158-002 05/25/2025

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

	Rates	Fringes
ELECTRICIAN.....	$ 42.00	23.93

ELEC0159-003 05/26/2024

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	$ 48.55	25.91

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 06/01/2025

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 47.46	33.34

ELEC0388-002 06/01/2024

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:	$ 40.19	26%+12.45

ELEC0430-002 06/01/2024

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 48.50	26.25

ELEC0494-005 06/01/2025

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 50.86	28.26

ELEC0494-006 06/01/2025

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

(Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 45.20	25.27

ELEC0494-013 06/01/2025

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

	Rates	Fringes
Sound & Communications		
Installer	$ 37.13	21.58
Technician	$ 37.13	21.58

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, 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 06/01/2025

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:	$ 41.76	23.65

ELEC0890-003 06/01/2024

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

	Rates	Fringes
Electricians:	$ 43.65	25.95%+12.26

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

ENGI0139-005 06/01/2025

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 48.37	30.30
Group 2	$ 47.87	30.30
Group 3	$ 46.77	30.30
Group 4	$ 46.51	30.30
Group 5	$ 46.22	30.30
Group 6	$ 40.32	30.30

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; bituminious 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.

IRON0008-002 06/01/2025

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

	Rates	Fringes
IRONWORKER	$ 44.66	33.67

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

IRON0008-003 06/01/2025

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

	Rates	Fringes
IRONWORKER	$ 47.52	33.67

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

IRON0383-001 06/01/2025

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	$ 44.00	32.66

IRON0498-005 06/01/2025

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

	Rates	Fringes
IRONWORKER	$ 48.74	49.65

IRON0512-008 05/01/2025

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

	Rates	Fringes
IRONWORKER	$ 46.35	36.86

IRON0512-021 05/01/2025

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

	Rates	Fringes
IRONWORKER	$ 42.89	36.86

LABO0113-002 06/02/2025

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 38.81	25.53
Group 2	$ 38.96	25.53
Group 3	$ 39.16	25.53
Group 4	$ 39.31	25.53
Group 5	$ 39.46	25.53
Group 6	$ 35.30	25.53

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 Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/02/2025

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 38.06	25.53
Group 2	$ 38.16	25.53
Group 3	$ 38.21	25.53
Group 4	$ 38.41	25.53
Group 5	$ 38.26	25.53
Group 6	$ 35.15	25.53

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 Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/02/2025

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 37.87	25.53
Group 2	$ 38.02	25.53
Group 3	$ 38.22	25.53
Group 4	$ 38.19	25.53
Group 5	$ 38.52	25.53
Group 6	$ 35.02	25.53

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 Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/02/2025

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, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 43.77	19.97
Group 2	$ 43.87	19.97
Group 3	$ 43.92	19.97
Group 4	$ 44.12	19.97
Group 5	$ 43.97	19.97
Group 6	$ 40.40	19.97

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; Bitminous 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 Sawer 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 Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/02/2025

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 44.05	19.97
Group 2	$ 44.15	19.97
Group 3	$ 44.20	19.97
Group 4	$ 44.40	19.97
Group 5	$ 44.25	19.97
Group 6	$ 40.40	19.97

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; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

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

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

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/05/2025

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 38.17	27.26
Spray, Sandblast, Steel	$ 38.77	27.26
Repaint:		
Brush, Roller	$ 36.67	27.26
Spray, Sandblast, Steel	$ 37.27	27.26

PAIN0108-002 06/01/2025

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 43.64	23.35
Spray & Sandblast	$ 44.64	23.35

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

PAIN0259-004 05/01/2015

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

	Rates	Fringes
PAINTER	$ 22.03	12.45

PAIN0781-002 06/01/2025

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 43.19	24.87
Brush	$ 42.44	24.87
Spray & Sandblast	$ 43.19	24.87

PAIN0802-002 06/01/2025

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

	Rates	Fringes
PAINTER		
Brush	$ 37.65	21.17

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2025

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	$ 37.65	21.17

PAIN0934-001 06/01/2025

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes

Painters:
     Brush.....$ 40.62 26.37
     Spray.....$ 41.62 26.37
     Structural Steel.....$ 40.77 26.37

PAIN1011-002 06/01/2025

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 31.17	15.92

PLAS0599-002 06/01/2025

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area A	$ 47.22	31.90
Area C	$ 40.06	28.65
Area D	$ 42.28	26.43
Area E	$ 41.16	27.54
Area F	$ 37.33	31.38

AREA DESCRIPTIONS:

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

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

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

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2025

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 39.57	28.70
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 39.72	28.70

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

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year.

Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least $13.30 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 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

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

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate 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. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the 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. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

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

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification

and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

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

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail 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 an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail 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 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.

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END OF GENERAL DECISION
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"General Decision Number: WI20260008 01/02/2026

Superseded General Decision Number: WI20250008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/02/2026

BRWI0001-002 06/01/2025

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

	Rates	Fringes
BRICKLAYER	$ 40.09	28.10

BRWI0002-002 06/01/2025

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 48.60	29.31

BRWI0002-005 06/01/2025

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 46.01	29.31

BRWI0003-002 06/01/2024

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

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

BRWI0004-002 06/01/2025

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.71	28.90

BRWI0006-002 06/01/2025

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

	Rates	Fringes
BRICKLAYER	$ 39.36	28.83

BRWI0007-002 06/01/2025

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.34	29.49

BRWI0008-002 06/01/2025

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 45.72	27.42

BRWI0009-001 06/01/2024

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

BRWI0011-002 06/01/2024

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.45	27.41

BRWI0013-002 06/01/2025

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.17	28.66

BRWI0019-002 06/01/2025

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

	Rates	Fringes
BRICKLAYER	$ 39.50	28.69

BRWI0021-002 06/01/2025

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 40.14	29.67

BRWI0034-002 06/01/2025

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.17	28.66

CARP0068-011 05/05/2025

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	$ 47.57	31.17
PILEDRIVERMAN	$ 47.71	30.98

CARP0231-002 06/01/2025

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

	Rates	Fringes
CARPENTER	$ 45.46	31.52

CARP0310-002 06/01/2025

ADAMS, ASHLAND, BAYFIELD (Eastern 2/3), FOREST, IRON, JUNEAU, LANGLADE, LINCOLN, MARATHON, ONEIDA, PORTAGE, PRICE, SHAWANO (Western Portion of the County), TAYLOR, VILAS, AND WOOD COUNTIES

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP0314-001 06/02/2025

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

	Rates	Fringes
Carpenter	$ 42.45	28.78
Piledrivermen	$ 44.45	28.78

CARP0361-004 05/05/2025

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes

CARPENTER.....$ 46.82 31.92

CARP0731-002 06/03/2024

CALUMET (Eastern Portion of the County), FOND DU LAC (Eastern Portion of the County), MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
Carpenter	$ 42.44	28.44
Piledriver	$ 42.44	28.44

CARP0955-002 06/02/2025

CALUMET (Western Portion of the County), FOND DU LAC (Western Portion of the County), GREEN LAKE, MARQUETTE, OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP1056-002 06/01/2024

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

	Rates	Fringes
MILLWRIGHT	$ 42.00	28.85

CARP1074-002 06/02/2025

BARRON, BURNETT, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, PEPIN, PIERCE (E. of Hwy. 29 & 65), POLK (E. of Hwy. 35, 48 & 65), RUSK, SAWYER, ST. CROIX (E. of Hwy. 65), AND WASHBURN

	Rates	Fringes
Carpenter	$ 44.43	29.95
Piledriver	$ 44.43	29.95

CARP1143-002 06/02/2025

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

	Rates	Fringes
Carpenter	$ 44.43	29.95

Piledriver.....$ 44.43 29.95

CARP1146-002 06/02/2025

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, MENOMINEE, OCONTO, AND SHAWANO (Western Portion of the County) COUNTIES

	Rates	Fringes
Carpenter.....	$ 44.43	29.95
Piledriver.....	$ 44.43	29.95

CARP2337-009 06/02/2025

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

	Rates	Fringes
PILEDRIVERMAN.....	$ 44.39	34.79

CARP2337-010 06/02/2025

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

	Rates	Fringes
MILLWRIGHT.....	$ 44.03	32.94

ELEC0014-002 05/25/2025

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, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	$ 44.29	25.21

ELEC0127-002 06/01/2025

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	$ 50.01	28.4

ELEC0158-002 05/25/2025

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

	Rates	Fringes
ELECTRICIAN.....	$ 42.00	23.93

ELEC0159-003 05/26/2024

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	$ 48.55	25.91

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 06/01/2025

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 47.46	33.34

ELEC0388-002 06/01/2024

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:	$ 40.19	26%+12.45

ELEC0430-002 06/01/2024

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 48.50	26.25

ELEC0494-005 06/01/2025

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 50.86	28.26

ELEC0494-006 06/01/2025

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

	Rates	Fringes
Electricians:	$ 45.20	25.27

ELEC0577-003 06/01/2025

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:	$ 41.76	23.65

ELEC0890-003 06/01/2024

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

	Rates	Fringes
Electricians:	$ 43.65	25.95%+12.26

ENGI0139-003 06/02/2025

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 50.53	27.89
Group 2	$ 49.28	27.89
Group 3	$ 45.73	27.89
Group 4	$ 45.20	27.89
Group 5	$ 43.13	27.89
Group 6	$ 41.60	27.89

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 Sweeeprs; 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/Freese 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 06/02/2025

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 47.19	28.15
Group 2	$ 46.41	28.15
Group 3	$ 45.46	28.15
Group 4	$ 44.41	28.15

Group 5.....$ 43.01 28.15

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 (14S 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 andWinch 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).

IRON0008-002 06/01/2025

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

	Rates	Fringes
IRONWORKER	$ 44.66	33.67

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

IRON0008-003 06/01/2025

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

	Rates	Fringes
IRONWORKER	$ 47.52	33.67

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

IRON0383-001 06/01/2025

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	$ 44.00	32.66

IRON0498-005 06/01/2025

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

	Rates	Fringes
IRONWORKER	$ 48.74	49.65

IRON0512-008 05/01/2025

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

	Rates	Fringes

IRONWORKER.....$ 46.35 36.86

IRON0512-021 05/01/2025

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

	Rates	Fringes
IRONWORKER	$ 42.89	36.86

LABO0113-004 06/01/2025

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1	$ 19.99	24.42
Group 2	$ 22.54	24.42
Group 3	$ 26.53	24.42
Group 4	$ 37.05	24.42
Group 5	$ 37.23	24.42
Group 6	$ 37.29	24.42
Group 7	$ 41.62	24.42
Group 8	$ 44.78	24.42
Group 9	$ 45.51	24.42

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

LABO0113-005 06/01/2025

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1	$ 27.49	24.42

Group 2	$ 34.17	24.42
Group 3	$ 38.89	24.42
Group 4	$ 40.88	24.42

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 Sawer, 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

LABO0113-008 06/01/2025

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1	$ 26.53	24.42
Group 2	$ 37.23	24.42
Group 3	$ 37.29	24.42
Group 4	$ 41.62	24.42
Group 5	$ 41.77	24.42
Group 6	$ 44.78	24.42
Group 7	$ 45.51	24.42

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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* LABO0113-009 06/01/2025

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1	$ 26.53	24.42
Group 2	$ 37.23	24.42
Group 3	$ 42.22	24.42
Group 4	$ 43.12	24.42
Group 5	$ 43.27	24.42
Group 6	$ 46.30	24.42
Group 7	$ 46.99	24.42

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 classifcations

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; Pielayer 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.

LABO0140-005 06/01/2025

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, KEWAUNEE, 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, TREMMPEALEAU, VERNON, VILAS, WALWWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1	$ 36.98	19.97
Group 2	$ 38.83	19.97
Group 3	$ 39.13	19.97
Group 4	$ 39.78	19.97

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 Sawer; 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

 LABO0464-002 06/01/2025

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 36.88	19.97
Group 2	$ 39.08	19.97
Group 3	$ 39.38	19.97
Group 4	$ 40.03	19.97

  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 Sawer; Gunnite Man; Manhole Builder; Welder;
  Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
  Car Pusher; Raker and Luteman; Hydraulic jacking of
  shields, Shield Dirvers; Mining Machine; Lock Tenders;
  Mucking Machine Operators; Motor Men and Gauge Tenders;
  Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

 LABO1091-010 06/01/2025

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1	$ 36.67	19.97
Group 2	$ 38.73	19.97
Group 3	$ 39.03	19.97
Group 4	$ 39.68	19.97

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 Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Dirvers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-002 06/01/2025

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area A	$ 47.22	31.90
Area C	$ 40.06	28.65
Area D	$ 42.28	26.43
Area E	$ 41.16	27.54
Area F	$ 37.33	31.38

AREA DESCRIPTIONS:

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

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

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

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2025

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 39.57	28.70
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 39.72	28.70

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

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

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least $13.30 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 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

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

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate 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. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the 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. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

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

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

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

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail 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 an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail 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 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.

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END OF GENERAL DECISION

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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 ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0105 Clearing	71.000 STA	_____.____	_____.____
0004	201.0205 Grubbing	118.000 STA	_____.____	_____.____
0006	201.0220 Grubbing	206.000 ID	_____.____	_____.____
0008	203.0100 Removing Small Pipe Culverts	39.000 EACH	_____.____	_____.____
0010	203.0216.S Abatement of Asbestos Containing Material (project) 01. 5845-16-74	1.000 EACH	_____.____	_____.____
0012	203.0220 Removing Structure (structure) 01. B-13-812	1.000 EACH	_____.____	_____.____
0014	203.0220 Removing Structure (structure) 02. C-13-94	1.000 EACH	_____.____	_____.____
0016	203.0220 Removing Structure (structure) 03. 60-Inch X 90-FT Corrugated Metal Culvert Pipe	1.000 EACH	_____.____	_____.____
0018	203.0220 Removing Structure (structure) 04. 60-Inch X 100-FT Corrugated Metal Culvert Pipe	1.000 EACH	_____.____	_____.____
0020	203.0220 Removing Structure (structure) 05. 72-Inch X 75-FT Corrugated Metal Culvert Pipe	1.000 EACH	_____.____	_____.____
0022	203.0220 Removing Structure (structure) 06. 72-Inch X 100-FT Corrugated Metal Culvert Pipe	1.000 EACH	_____.____	_____.____
0024	204.0100 Removing Concrete Pavement	66,803.000 SY	_____.____	_____.____
0026	204.0110 Removing Asphaltic Surface	4,647.000 SY	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0028	204.0150 Removing Curb & Gutter	12,511.000 LF	_____.____	_____.____
0030	204.0155 Removing Concrete Sidewalk	5,422.000 SY	_____.____	_____.____
0032	204.0165 Removing Guardrail	4,048.000 LF	_____.____	_____.____
0034	204.0170 Removing Fence	2,264.000 LF	_____.____	_____.____
0036	204.0195 Removing Concrete Bases	37.000 EACH	_____.____	_____.____
0038	204.0210 Removing Manholes	14.000 EACH	_____.____	_____.____
0040	204.0220 Removing Inlets	72.000 EACH	_____.____	_____.____
0042	204.0225 Removing Septic Tanks	1.000 EACH	_____.____	_____.____
0044	204.0236 Removing Building (parcel) 01. Parcel 59	1.000 EACH	_____.____	_____.____
0046	204.0236 Removing Building (parcel) 02. Parcel 1 (Plat ID 5845-16-29)	1.000 EACH	_____.____	_____.____
0048	204.0241 Site Clearance (parcel) 01. Parcel 1 (Plat ID 5845-16-29)	1.000 EACH	_____.____	_____.____
0050	204.0245 Removing Storm Sewer (size) 01. 8-Inch	42.000 LF	_____.____	_____.____
0052	204.0245 Removing Storm Sewer (size) 02. 10-Inch	18.000 LF	_____.____	_____.____
0054	204.0245 Removing Storm Sewer (size) 03. 12-Inch	1,555.000 LF	_____.____	_____.____
0056	204.0245 Removing Storm Sewer (size) 04. 15-Inch	1,263.000 LF	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0058	204.0245 Removing Storm Sewer (size) 05. 18-Inch	37.000 LF	_____.____	_____.____
0060	204.0245 Removing Storm Sewer (size) 06. 24-Inch	1,463.000 LF	_____.____	_____.____
0062	204.0245 Removing Storm Sewer (size) 07. 30-Inch	77.000 LF	_____.____	_____.____
0064	204.0245 Removing Storm Sewer (size) 08. 36-Inch	359.000 LF	_____.____	_____.____
0066	204.0245 Removing Storm Sewer (size) 09. 42-Inch	443.000 LF	_____.____	_____.____
0068	204.0245 Removing Storm Sewer (size) 10. 48-Inch	86.000 LF	_____.____	_____.____
0070	204.0245 Removing Storm Sewer (size) 11. 18-Inch or Less	593.000 LF	_____.____	_____.____
0072	204.0245 Removing Storm Sewer (size) 12. 24-Inch to 30-Inch	400.000 LF	_____.____	_____.____
0074	204.0265 Abandoning Wells	1.000 EACH	_____.____	_____.____
0076	204.0270 Abandoning Culvert Pipes	1.000 EACH	_____.____	_____.____
0078	204.0280 Sealing Pipes	2.000 EACH	_____.____	_____.____
0080	204.0291.S Abandoning Sewer	23.000 CY	_____.____	_____.____
0082	204.9060.S Removing (item description) 01. Removing Traffic Signal USH 51 & Van Buren St	1.000 EACH	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0084	204.9060.S Removing (item description) 02. Removing Traffic Signal USH 51 & Kings Lynn Rd	1.000 EACH	_____.____	_____.____
0086	204.9060.S Removing (item description) 03. Removing Traffic Signal USH 51 & Jackson ST	1.000 EACH	_____.____	_____.____
0088	204.9060.S Removing (item description) 04. Removing Inlet Covers	18.000 EACH	_____.____	_____.____
0090	204.9060.S Removing (item description) 05. Removing Private Light Pole	3.000 EACH	_____.____	_____.____
0092	204.9060.S Removing (item description) 06. Removing Stone Block Retaining Wall	1.000 EACH	_____.____	_____.____
0094	204.9060.S Removing (item description) 07. Removing Business Advertisement Sign (Parcel 38)	1.000 EACH	_____.____	_____.____
0096	205.0100 Excavation Common	234,842.000 CY	_____.____	_____.____
0098	205.0200 Excavation Rock	7,498.000 CY	_____.____	_____.____
0100	205.0400 Excavation Marsh	31,065.000 CY	_____.____	_____.____
0102	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	30.000 TON	_____.____	_____.____
0104	205.1300 Presplitting Rock	9,020.000 LF	_____.____	_____.____
0106	206.2001 Excavation for Structures Culverts (structure) 01. C-13-2090	1.000 EACH	_____.____	_____.____
0108	206.2001 Excavation for Structures Culverts (structure) 02. C-13-2091	1.000 EACH	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0110	208.0100 Borrow	114,902.000 CY	_____.____	_____.____
0112	209.1500 Backfill Granular Grade 1	10,040.000 TON	_____.____	_____.____
0114	210.1500 Backfill Structure Type A	310.000 TON	_____.____	_____.____
0116	210.2500 Backfill Structure Type B	8,816.000 TON	_____.____	_____.____
0118	211.0101 Prepare Foundation for Asphaltic Paving (project) 01. 5845-16-74	1.000 EACH	_____.____	_____.____
0120	213.0100 Finishing Roadway (project) 01. 5845-16-73	1.000 EACH	_____.____	_____.____
0122	213.0100 Finishing Roadway (project) 02. 5845-16-74	1.000 EACH	_____.____	_____.____
0124	305.0110 Base Aggregate Dense 3/4-Inch	2,135.000 TON	_____.____	_____.____
0126	305.0120 Base Aggregate Dense 1 1/4-Inch	111,006.000 TON	_____.____	_____.____
0128	305.0130 Base Aggregate Dense 3-Inch	1,180.000 TON	_____.____	_____.____
0130	311.0115 Breaker Run	204.000 CY	_____.____	_____.____
0132	312.0110 Select Crushed Material	197,799.000 TON	_____.____	_____.____
0134	390.0100 Removing Pavement for Base Patching	34.000 CY	_____.____	_____.____
0136	390.0201 Base Patching Asphaltic	68.000 TON	_____.____	_____.____
0138	405.0100 Coloring Concrete WisDOT Red	308.000 CY	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0140	415.0080 Concrete Pavement 8-Inch	153,482.000 SY	_____.____	_____.____
0142	415.0210 Concrete Pavement Gaps	40.000 EACH	_____.____	_____.____
0144	415.1080 Concrete Pavement HES 8-Inch	1,472.000 SY	_____.____	_____.____
0146	415.2010 Concrete Truck Apron 12-Inch	1,046.000 SY	_____.____	_____.____
0148	415.4100 Concrete Pavement Joint Filling	59,429.000 SY	_____.____	_____.____
0150	415.6000.S Rout and Seal	20,916.000 LF	_____.____	_____.____
0152	416.0610 Drilled Tie Bars	2,079.000 EACH	_____.____	_____.____
0154	416.0620 Drilled Dowel Bars	172.000 EACH	_____.____	_____.____
0156	450.4000 HMA Cold Weather Paving	310.000 TON	_____.____	_____.____
0158	455.0605 Tack Coat	1,263.000 GAL	_____.____	_____.____
0160	460.2000 Incentive Density HMA Pavement	3,682.000 DOL	1.00000	3,682.00
0162	460.5224 HMA Pavement 4 LT 58-28 S	3,641.000 TON	_____.____	_____.____
0164	460.6224 HMA Pavement 4 MT 58-28 S	2,258.000 TON	_____.____	_____.____
0166	465.0120 Asphaltic Surface Driveways and Field Entrances	1,202.000 TON	_____.____	_____.____
0168	465.0125 Asphaltic Surface Temporary	6,098.000 TON	_____.____	_____.____
0170	465.0310 Asphaltic Curb	6,750.000 LF	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0172	465.0315 Asphaltic Flumes	247.000 SY	_____.____	_____.____
0174	495.1000.S Cold Patch	20.000 TON	_____.____	_____.____
0176	504.0100 Concrete Masonry Culverts	477.000 CY	_____.____	_____.____
0178	504.0900 Concrete Masonry Endwalls	22.000 CY	_____.____	_____.____
0180	505.0400 Bar Steel Reinforcement HS Structures	51,340.000 LB	_____.____	_____.____
0182	505.0600 Bar Steel Reinforcement HS Coated Structures	20,100.000 LB	_____.____	_____.____
0184	511.1100 Temporary Shoring	120.000 SF	_____.____	_____.____
0186	511.1300 Temporary Shoring (location) 01. 632+50 SB - 634+50 SB	1,440.000 SF	_____.____	_____.____
0188	511.1300 Temporary Shoring (location) 02. 506+36 SB + 507+45 SB	500.000 SF	_____.____	_____.____
0190	511.2300 Temporary Shoring Left in Place (location) 01. 503+80 SB - 507+45 SB	2,160.000 SF	_____.____	_____.____
0192	513.2001 Railing Pipe	55.000 LF	_____.____	_____.____
0194	513.8006 Railing Steel Pedestrian Type C1	600.000 LF	_____.____	_____.____
0196	516.0500 Rubberized Membrane Waterproofing	29.000 SY	_____.____	_____.____
0198	516.0610.S Sheet Membrane Waterproofing for Buried Structures	906.000 SY	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0200	517.1015.S Concrete Staining Multi-Color (structure) 01. R-13-387	680.000 SF	_____.____	_____.____
0202	517.1015.S Concrete Staining Multi-Color (structure) 02. R-13-388	2,180.000 SF	_____.____	_____.____
0204	517.1015.S Concrete Staining Multi-Color (structure) 03. R-13-389	1,980.000 SF	_____.____	_____.____
0206	517.1015.S Concrete Staining Multi-Color (structure) 04. R-13-390	655.000 SF	_____.____	_____.____
0208	517.1050.S Architectural Surface Treatment (structure) 01. R-13-387	505.000 SF	_____.____	_____.____
0210	517.1050.S Architectural Surface Treatment (structure) 02. R-13-388	1,630.000 SF	_____.____	_____.____
0212	517.1050.S Architectural Surface Treatment (structure) 03. R-13-389	1,455.000 SF	_____.____	_____.____
0214	517.1050.S Architectural Surface Treatment (structure) 04. R-13-390	480.000 SF	_____.____	_____.____
0216	520.1012 Apron Endwalls for Culvert Pipe 12-Inch	2.000 EACH	_____.____	_____.____
0218	520.1018 Apron Endwalls for Culvert Pipe 18-Inch	14.000 EACH	_____.____	_____.____
0220	520.2012 Culvert Pipe Temporary 12-Inch	282.000 LF	_____.____	_____.____
0222	520.2018 Culvert Pipe Temporary 18-Inch	24.000 LF	_____.____	_____.____
0224	520.2021 Culvert Pipe Temporary 21-Inch	78.000 LF	_____.____	_____.____
0226	520.2024 Culvert Pipe Temporary 24-Inch	147.000 LF	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0228	520.2030 Culvert Pipe Temporary 30-Inch	30.000 LF	_____.____	_____.____
0230	520.3412 Culvert Pipe Class III-A Non-metal 12-Inch	36.000 LF	_____.____	_____.____
0232	520.3418 Culvert Pipe Class III-A Non-metal 18-Inch	378.000 LF	_____.____	_____.____
0234	520.8000 Concrete Collars for Pipe	35.000 EACH	_____.____	_____.____
0236	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	4.000 EACH	_____.____	_____.____
0238	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	1.000 EACH	_____.____	_____.____
0240	521.3112 Culvert Pipe Corrugated Steel 12-Inch	66.000 LF	_____.____	_____.____
0242	521.3118 Culvert Pipe Corrugated Steel 18-Inch	11.000 LF	_____.____	_____.____
0244	521.3124 Culvert Pipe Corrugated Steel 24-Inch	32.000 LF	_____.____	_____.____
0246	522.0124 Culvert Pipe Reinforced Concrete Class III 24-Inch	490.000 LF	_____.____	_____.____
0248	522.0130 Culvert Pipe Reinforced Concrete Class III 30-Inch	132.000 LF	_____.____	_____.____
0250	522.0136 Culvert Pipe Reinforced Concrete Class III 36-Inch	112.000 LF	_____.____	_____.____
0252	522.0142 Culvert Pipe Reinforced Concrete Class III 42-Inch	174.000 LF	_____.____	_____.____
0254	522.0160 Culvert Pipe Reinforced Concrete Class III 60-Inch	288.000 LF	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0256	522.0172 Culvert Pipe Reinforced Concrete Class III 72-Inch	282.000 LF	_____.____	_____.____
0258	522.0424 Culvert Pipe Reinforced Concrete Class IV 24-Inch	58.000 LF	_____.____	_____.____
0260	522.0430 Culvert Pipe Reinforced Concrete Class IV 30-Inch	126.000 LF	_____.____	_____.____
0262	522.0454 Culvert Pipe Reinforced Concrete Class IV 54-Inch	104.000 LF	_____.____	_____.____
0264	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	39.000 EACH	_____.____	_____.____
0266	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	9.000 EACH	_____.____	_____.____
0268	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	3.000 EACH	_____.____	_____.____
0270	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	17.000 EACH	_____.____	_____.____
0272	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	4.000 EACH	_____.____	_____.____
0274	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	2.000 EACH	_____.____	_____.____
0276	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	3.000 EACH	_____.____	_____.____
0278	522.1054 Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	2.000 EACH	_____.____	_____.____
0280	522.1060 Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	4.000 EACH	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0282	522.1072 Apron Endwalls for Culvert Pipe Reinforced Concrete 72-Inch	4.000 EACH	_____.____	_____.____
0284	522.2424 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	258.000 LF	_____.____	_____.____
0286	522.2434 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	120.000 LF	_____.____	_____.____
0288	522.2624 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	6.000 EACH	_____.____	_____.____
0290	522.2634 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	2.000 EACH	_____.____	_____.____
0292	522.2638 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	2.000 EACH	_____.____	_____.____
0294	524.0624 Apron Endwalls for Culvert Pipe Salvaged 24-Inch	8.000 EACH	_____.____	_____.____
0296	524.0630 Apron Endwalls for Culvert Pipe Salvaged 30-Inch	1.000 EACH	_____.____	_____.____
0298	531.2042 Drilling Shaft 42-Inch	108.000 LF	_____.____	_____.____
0300	531.5130 Foundation Single-Shaft Type MC-III (structure) 01. S-13-0618	1.000 EACH	_____.____	_____.____
0302	531.5130 Foundation Single-Shaft Type MC-III (structure) 02. S-13-0600	1.000 EACH	_____.____	_____.____
0304	531.5130 Foundation Single-Shaft Type MC-III (structure) 03. S-13-0601	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0306	531.5130 Foundation Single-Shaft Type MC-III (structure) 04. S-13-0602	1.000 EACH	_____.____	_____.____
0308	531.5130 Foundation Single-Shaft Type MC-III (structure) 05. S-13-0603	1.000 EACH	_____.____	_____.____
0310	531.5130 Foundation Single-Shaft Type MC-III (structure) 06. S-13-0604	1.000 EACH	_____.____	_____.____
0312	532.5130 Monotube Cantilever Type III (structure) 01. S-13-0618	1.000 EACH	_____.____	_____.____
0314	532.5130 Monotube Cantilever Type III (structure) 02. S-13-0600	1.000 EACH	_____.____	_____.____
0316	532.5130 Monotube Cantilever Type III (structure) 03. S-13-0601	1.000 EACH	_____.____	_____.____
0318	532.5130 Monotube Cantilever Type III (structure) 04. S-13-0602	1.000 EACH	_____.____	_____.____
0320	532.5130 Monotube Cantilever Type III (structure) 05. S-13-0603	1.000 EACH	_____.____	_____.____
0322	532.5130 Monotube Cantilever Type III (structure) 06. S-13-0604	1.000 EACH	_____.____	_____.____
0324	601.0150 Concrete Curb Integral Type D	654.000 LF	_____.____	_____.____
0326	601.0405 Concrete Curb & Gutter 18-Inch Type A	764.000 LF	_____.____	_____.____
0328	601.0407 Concrete Curb & Gutter 18-Inch Type D	353.000 LF	_____.____	_____.____
0330	601.0409 Concrete Curb & Gutter 30-Inch Type A	38,379.000 LF	_____.____	_____.____
0332	601.0411 Concrete Curb & Gutter 30-Inch Type D	2,713.000 LF	_____.____	_____.____

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Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0334	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	30,362.000 LF	_____.____	_____.____
0336	601.0553 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	95.000 LF	_____.____	_____.____
0338	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	84.000 LF	_____.____	_____.____
0340	601.0557 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	23.000 LF	_____.____	_____.____
0342	601.0581 Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type R	759.000 LF	_____.____	_____.____
0344	601.0600 Concrete Curb Pedestrian	411.000 LF	_____.____	_____.____
0346	602.0405 Concrete Sidewalk 4-Inch	2,036.000 SF	_____.____	_____.____
0348	602.0410 Concrete Sidewalk 5-Inch	214,241.000 SF	_____.____	_____.____
0350	602.0415 Concrete Sidewalk 6-Inch	387.000 SF	_____.____	_____.____
0352	602.0515 Curb Ramp Detectable Warning Field Natural Patina	880.000 SF	_____.____	_____.____
0354	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	365.000 SF	_____.____	_____.____
0356	602.0810 Concrete Driveway 6-Inch	2,340.000 SY	_____.____	_____.____
0358	602.0860 Concrete Driveway HES 6-Inch	115.000 SY	_____.____	_____.____
0360	602.1500 Concrete Steps	5.000 SF	_____.____	_____.____

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Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0362	602.3210 Concrete Rumble Strips, Shoulder Divided Roadway	19,750.000 LF	_____.____	_____.____
0364	603.1142 Concrete Barrier Type S42	605.000 LF	_____.____	_____.____
0366	603.1156 Concrete Barrier Type S56	802.000 LF	_____.____	_____.____
0368	603.8000 Concrete Barrier Temporary Precast Delivered	4,940.000 LF	_____.____	_____.____
0370	603.8125 Concrete Barrier Temporary Precast Installed	7,590.000 LF	_____.____	_____.____
0372	603.8500 Anchoring Concrete Barrier Temporary Precast	833.000 LF	_____.____	_____.____
0374	606.0100 Riprap Light	122.000 CY	_____.____	_____.____
0376	606.0200 Riprap Medium	472.000 CY	_____.____	_____.____
0378	606.0300 Riprap Heavy	234.000 CY	_____.____	_____.____
0380	608.0005 Storm Sewer Rock Excavation	46.000 CY	_____.____	_____.____
0382	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	4,289.000 LF	_____.____	_____.____
0384	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	640.000 LF	_____.____	_____.____
0386	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	449.000 LF	_____.____	_____.____
0388	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	2,810.000 LF	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0390	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	187.000 LF	_____.____	_____.____
0392	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	176.000 LF	_____.____	_____.____
0394	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	1,066.000 LF	_____.____	_____.____
0396	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	1,256.000 LF	_____.____	_____.____
0398	608.0372 Storm Sewer Pipe Reinforced Concrete Class III 72-Inch	583.000 LF	_____.____	_____.____
0400	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	3,178.000 LF	_____.____	_____.____
0402	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	540.000 LF	_____.____	_____.____
0404	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	118.000 LF	_____.____	_____.____
0406	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	572.000 LF	_____.____	_____.____
0408	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	136.000 LF	_____.____	_____.____
0410	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	57.000 LF	_____.____	_____.____
0412	608.0442 Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	114.000 LF	_____.____	_____.____

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Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0414	608.2338 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	1,182.000 LF	_____.____	_____.____
0416	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	70.000 LF	_____.____	_____.____
0418	608.6008 Storm Sewer Pipe Composite 8-Inch	54.000 LF	_____.____	_____.____
0420	608.6012 Storm Sewer Pipe Composite 12-Inch	8.000 LF	_____.____	_____.____
0422	611.0420 Reconstructing Manholes	3.000 EACH	_____.____	_____.____
0424	611.0530 Manhole Covers Type J	39.000 EACH	_____.____	_____.____
0426	611.0535 Manhole Covers Type J-Special	14.000 EACH	_____.____	_____.____
0428	611.0545 Manhole Covers Type L	1.000 EACH	_____.____	_____.____
0430	611.0603 Inlet Covers Type A-S	6.000 EACH	_____.____	_____.____
0432	611.0612 Inlet Covers Type C	6.000 EACH	_____.____	_____.____
0434	611.0613 Inlet Covers Type DW	4.000 EACH	_____.____	_____.____
0436	611.0624 Inlet Covers Type H	178.000 EACH	_____.____	_____.____
0438	611.0627 Inlet Covers Type HM	37.000 EACH	_____.____	_____.____
0440	611.0636 Inlet Covers Type HM-S	11.000 EACH	_____.____	_____.____
0442	611.0639 Inlet Covers Type H-S	29.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0444	611.0642 Inlet Covers Type MS	15.000 EACH	_____.____	_____.____
0446	611.0652 Inlet Covers Type T	5.000 EACH	_____.____	_____.____
0448	611.1005 Catch Basins 5-FT Diameter	5.000 EACH	_____.____	_____.____
0450	611.2004 Manholes 4-FT Diameter	22.000 EACH	_____.____	_____.____
0452	611.2005 Manholes 5-FT Diameter	6.000 EACH	_____.____	_____.____
0454	611.2006 Manholes 6-FT Diameter	7.000 EACH	_____.____	_____.____
0456	611.2007 Manholes 7-FT Diameter	5.000 EACH	_____.____	_____.____
0458	611.2008 Manholes 8-FT Diameter	19.000 EACH	_____.____	_____.____
0460	611.2009 Manholes 9-FT Diameter	1.000 EACH	_____.____	_____.____
0462	611.3003 Inlets 3-FT Diameter	4.000 EACH	_____.____	_____.____
0464	611.3004 Inlets 4-FT Diameter	56.000 EACH	_____.____	_____.____
0466	611.3220 Inlets 2x2-FT	1.000 EACH	_____.____	_____.____
0468	611.3225 Inlets 2x2.5-FT	2.000 EACH	_____.____	_____.____
0470	611.3230 Inlets 2x3-FT	201.000 EACH	_____.____	_____.____
0472	611.3901 Inlets Median 1 Grate	6.000 EACH	_____.____	_____.____
0474	611.3902 Inlets Median 2 Grate	5.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0476	611.8120.S Cover Plates Temporary	36.000 EACH	_____.____	_____.____
0478	611.9705 Salvaged Manhole Covers	1.000 EACH	_____.____	_____.____
0480	611.9710 Salvaged Inlet Covers	5.000 EACH	_____.____	_____.____
0482	612.0406 Pipe Underdrain Wrapped 6-Inch	898.000 LF	_____.____	_____.____
0484	612.0902.S Insulation Board Polystyrene (inch) 01. 2-Inch	160.000 SY	_____.____	_____.____
0486	614.0905 Crash Cushions Temporary	7.000 EACH	_____.____	_____.____
0488	614.2300 MGS Guardrail 3	5,046.500 LF	_____.____	_____.____
0490	614.2330 MGS Guardrail 3 K	651.500 LF	_____.____	_____.____
0492	614.2340 MGS Guardrail 3 L	225.000 LF	_____.____	_____.____
0494	614.2500 MGS Thrie Beam Transition	275.800 LF	_____.____	_____.____
0496	614.2610 MGS Guardrail Terminal EAT	10.000 EACH	_____.____	_____.____
0498	614.2620 MGS Guardrail Terminal Type 2	7.000 EACH	_____.____	_____.____
0500	616.0100 Fence Woven Wire (height) 01. 4-FT	432.000 LF	_____.____	_____.____
0502	616.0205 Fence Chain Link 5-FT	125.000 LF	_____.____	_____.____
0504	616.0206 Fence Chain Link 6-FT	2,000.000 LF	_____.____	_____.____
0506	616.0700.S Fence Safety	719.000 LF	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0508	618.0100 Maintenance and Repair of Haul Roads (project) 01. 5845-16-73	1.000 EACH	_____.____	_____.____
0510	618.0100 Maintenance and Repair of Haul Roads (project) 02. 5845-16-74	1.000 EACH	_____.____	_____.____
0512	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0514	620.0300 Concrete Median Sloped Nose	2,938.000 SF	_____.____	_____.____
0516	624.0100 Water	5,338.400 MGAL	_____.____	_____.____
0518	625.0100 Topsoil	270,974.000 SY	_____.____	_____.____
0520	627.0200 Mulching	110,950.000 SY	_____.____	_____.____
0522	628.1504 Silt Fence	25,186.000 LF	_____.____	_____.____
0524	628.1520 Silt Fence Maintenance	121,436.000 LF	_____.____	_____.____
0526	628.1905 Mobilizations Erosion Control	49.000 EACH	_____.____	_____.____
0528	628.1910 Mobilizations Emergency Erosion Control	28.000 EACH	_____.____	_____.____
0530	628.2004 Erosion Mat Class I Type B	160,280.000 SY	_____.____	_____.____
0532	628.2006 Erosion Mat Urban Class I Type A	57,250.000 SY	_____.____	_____.____
0534	628.2008 Erosion Mat Urban Class I Type B	27,630.000 SY	_____.____	_____.____
0536	628.2027 Erosion Mat Class II Type C	6,164.000 SY	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0538	628.2037 Erosion Mat Class III Type C	3,820.000 SY	_____.____	_____.____
0540	628.5505 Polyethylene Sheeting	16,320.000 SY	_____.____	_____.____
0542	628.7005 Inlet Protection Type A	186.000 EACH	_____.____	_____.____
0544	628.7010 Inlet Protection Type B	17.000 EACH	_____.____	_____.____
0546	628.7015 Inlet Protection Type C	250.000 EACH	_____.____	_____.____
0548	628.7020 Inlet Protection Type D	80.000 EACH	_____.____	_____.____
0550	628.7504 Temporary Ditch Checks	898.000 LF	_____.____	_____.____
0552	628.7515.S Stone Ditch Checks	516.000 CY	_____.____	_____.____
0554	628.7555 Culvert Pipe Checks	209.000 EACH	_____.____	_____.____
0556	628.7560 Tracking Pads	10.000 EACH	_____.____	_____.____
0558	628.7570 Rock Bags	1,166.000 EACH	_____.____	_____.____
0560	629.0210 Fertilizer Type B	250.990 CWT	_____.____	_____.____
0562	630.0110 Seeding Mixture No. 10	2.300 LB	_____.____	_____.____
0564	630.0130 Seeding Mixture No. 30	11,100.100 LB	_____.____	_____.____
0566	630.0140 Seeding Mixture No. 40	498.000 LB	_____.____	_____.____
0568	630.0200 Seeding Temporary	522.000 LB	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0570	630.0300 Seeding Borrow Pit	66.000 LB	_____.____	_____.____
0572	630.0500 Seed Water	8,739.900 MGAL	_____.____	_____.____
0574	631.0300 Sod Water	2.800 MGAL	_____.____	_____.____
0576	631.1000 Sod Lawn	138.000 SY	_____.____	_____.____
0578	631.1100 Sod Erosion Control	138.000 SY	_____.____	_____.____
0580	632.0101 Trees (species, root, size) 01. Paper Birch, CG, 1.5' HT	11.000 EACH	_____.____	_____.____
0582	632.0101 Trees (species, root, size) 02. Japanese Lilac Tree, CG, 1.5' HT	11.000 EACH	_____.____	_____.____
0584	632.0101 Trees (species, root, size) 03. Canada Red Chokecherry, CG, 1.5' HT	10.000 EACH	_____.____	_____.____
0586	632.0101 Trees (species, root, size) 04. American Plum, CG, 1.5' HT	10.000 EACH	_____.____	_____.____
0588	632.0101 Trees (species, root, size) 05. Staghorn Sumac, CG, 1.5' HT	10.000 EACH	_____.____	_____.____
0590	632.9101 Landscape Planting Surveillance and Care Cycles	22.000 EACH	_____.____	_____.____
0592	633.5200 Markers Culvert End	105.000 EACH	_____.____	_____.____
0594	634.0612 Posts Wood 4x6-Inch X 12-FT	15.000 EACH	_____.____	_____.____
0596	634.0614 Posts Wood 4x6-Inch X 14-FT	68.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0598	634.0616 Posts Wood 4x6-Inch X 16-FT	80.000 EACH	_____.____	_____.____
0600	634.0618 Posts Wood 4x6-Inch X 18-FT	30.000 EACH	_____.____	_____.____
0602	634.0620 Posts Wood 4x6-Inch X 20-FT	9.000 EACH	_____.____	_____.____
0604	634.0622 Posts Wood 4x6-Inch X 22-FT	1.000 EACH	_____.____	_____.____
0606	634.0811 Posts Tubular Steel 2x2-Inch X 11-FT	15.000 EACH	_____.____	_____.____
0608	634.0812 Posts Tubular Steel 2x2-Inch X 12-FT	15.000 EACH	_____.____	_____.____
0610	637.2210 Signs Type II Reflective H	1,375.980 SF	_____.____	_____.____
0612	637.2220 Signs Type II Reflective SH	13.490 SF	_____.____	_____.____
0614	637.2230 Signs Type II Reflective F	270.500 SF	_____.____	_____.____
0616	638.2102 Moving Signs Type II	99.000 EACH	_____.____	_____.____
0618	638.2602 Removing Signs Type II	120.000 EACH	_____.____	_____.____
0620	638.3000 Removing Small Sign Supports	149.000 EACH	_____.____	_____.____
0622	638.4000 Moving Small Sign Supports	37.000 EACH	_____.____	_____.____
0624	643.0300 Traffic Control Drums	193,184.000 DAY	_____.____	_____.____
0626	643.0420 Traffic Control Barricades Type III	26,146.000 DAY	_____.____	_____.____
0628	643.0705 Traffic Control Warning Lights Type A	28,498.000 DAY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0630	643.0715 Traffic Control Warning Lights Type C	16,352.000 DAY	_____.____	_____.____
0632	643.0810 Traffic Control Connected Arrow Boards	297.000 DAY	_____.____	_____.____
0634	643.0900 Traffic Control Signs	122,214.000 DAY	_____.____	_____.____
0636	643.0910 Traffic Control Covering Signs Type I	5.000 EACH	_____.____	_____.____
0638	643.0920 Traffic Control Covering Signs Type II	52.000 EACH	_____.____	_____.____
0640	643.1000 Traffic Control Signs Fixed Message	621.000 SF	_____.____	_____.____
0642	643.1050 Traffic Control Signs PCMS	394.000 DAY	_____.____	_____.____
0644	643.1220 Traffic Control Connected Work Zone Start and End Location Markers	596.000 DAY	_____.____	_____.____
0646	643.3165 Temporary Marking Line Paint 6-Inch	39,162.000 LF	_____.____	_____.____
0648	643.3170 Temporary Marking Line Epoxy 6-Inch	75,177.000 LF	_____.____	_____.____
0650	643.3180 Temporary Marking Line Removable Tape 6-Inch	84,090.000 LF	_____.____	_____.____
0652	643.3265 Temporary Marking Line Paint 10-Inch	653.000 LF	_____.____	_____.____
0654	643.3280 Temporary Marking Line Removable Tape 10-Inch	976.000 LF	_____.____	_____.____
0656	643.3550 Temporary Marking Arrow Removable Tape	10.000 EACH	_____.____	_____.____
0658	643.3805 Temporary Marking Stop Line Paint 18-Inch	153.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0660	643.3820 Temporary Marking Stop Line Epoxy 18-Inch	208.000 LF	_____.____	_____.____
0662	643.3850 Temporary Marking Stop Line Removable Tape 18-Inch	188.000 LF	_____.____	_____.____
0664	643.3920 Temporary Marking Diagonal Epoxy 12-Inch	438.000 LF	_____.____	_____.____
0666	643.3950 Temporary Marking Diagonal Removable Tape 12-Inch	147.000 LF	_____.____	_____.____
0668	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0670	644.1410 Temporary Pedestrian Surface Asphalt	914.000 SF	_____.____	_____.____
0672	644.1440 Temporary Pedestrian Surface Matting	200.000 SF	_____.____	_____.____
0674	644.1601 Temporary Pedestrian Curb Ramp	2,728.000 DAY	_____.____	_____.____
0676	644.1605 Temporary Pedestrian Detectable Warning Field	536.000 SF	_____.____	_____.____
0678	644.1810 Temporary Pedestrian Barricade	9,621.000 LF	_____.____	_____.____
0680	645.0105 Geotextile Type C	306.000 SY	_____.____	_____.____
0682	645.0120 Geotextile Type HR	1,946.000 SY	_____.____	_____.____
0684	645.0130 Geotextile Type R	1,464.000 SY	_____.____	_____.____
0686	645.0145.S Geogrid Type SR-2	400.000 SY	_____.____	_____.____
0688	645.0220 Geogrid Type SR	117,190.000 SY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0690	646.2020 Marking Line Epoxy 6-Inch	36,575.000 LF	_____.____	_____.____
0692	646.2025 Marking Line Grooved Black Epoxy 6-Inch	1,895.000 LF	_____.____	_____.____
0694	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	68,850.000 LF	_____.____	_____.____
0696	646.4020 Marking Line Epoxy 10-Inch	2,504.000 LF	_____.____	_____.____
0698	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	11,700.000 LF	_____.____	_____.____
0700	646.5020 Marking Arrow Epoxy	163.000 EACH	_____.____	_____.____
0702	646.5120 Marking Word Epoxy	28.000 EACH	_____.____	_____.____
0704	646.5220 Marking Symbol Epoxy	21.000 EACH	_____.____	_____.____
0706	646.6120 Marking Stop Line Epoxy 18-Inch	1,046.000 LF	_____.____	_____.____
0708	646.6320 Marking Dotted Extension Epoxy 18-Inch	251.000 LF	_____.____	_____.____
0710	646.7120 Marking Diagonal Epoxy 12-Inch	207.000 LF	_____.____	_____.____
0712	646.7320 Marking Chevron Epoxy 12-Inch	1,022.000 LF	_____.____	_____.____
0714	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	2,727.000 LF	_____.____	_____.____
0716	646.7520 Marking Crosswalk Epoxy Block Style 24-Inch	359.000 LF	_____.____	_____.____
0718	646.8120 Marking Curb Epoxy	949.000 LF	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0720	646.8220 Marking Island Nose Epoxy	35.000 EACH	_____.____	_____.____
0722	646.9010 Marking Removal Line Water Blasting 4-Inch	25,677.000 LF	_____.____	_____.____
0724	646.9110 Marking Removal Line Water Blasting 8-Inch	355.000 LF	_____.____	_____.____
0726	646.9210 Marking Removal Line Water Blasting Wide	76.000 LF	_____.____	_____.____
0728	646.9310 Marking Removal Special Marking Water Blasting	4.000 EACH	_____.____	_____.____
0730	650.4000 Construction Staking Storm Sewer	403.000 EACH	_____.____	_____.____
0732	650.4500 Construction Staking Subgrade	34,391.000 LF	_____.____	_____.____
0734	650.5000 Construction Staking Base	9,878.000 LF	_____.____	_____.____
0736	650.5500 Construction Staking Curb Gutter and Curb & Gutter	2,820.000 LF	_____.____	_____.____
0738	650.6000 Construction Staking Pipe Culverts	28.000 EACH	_____.____	_____.____
0740	650.6501 Construction Staking Structure Layout (structure) 01. R-13-387	1.000 EACH	_____.____	_____.____
0742	650.6501 Construction Staking Structure Layout (structure) 02. R-13-388	1.000 EACH	_____.____	_____.____
0744	650.6501 Construction Staking Structure Layout (structure) 03. R-13-389	1.000 EACH	_____.____	_____.____
0746	650.6501 Construction Staking Structure Layout (structure) 04. R-13-390	1.000 EACH	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0748	650.6501 Construction Staking Structure Layout (structure) 05. C-13-2090	1.000 EACH	_____.____	_____.____
0750	650.6501 Construction Staking Structure Layout (structure) 06. B-13-922	1.000 EACH	_____.____	_____.____
0752	650.6501 Construction Staking Structure Layout (structure) 07. C-13-2091	1.000 EACH	_____.____	_____.____
0754	650.6501 Construction Staking Structure Layout (structure) 08. S-13-0618	1.000 EACH	_____.____	_____.____
0756	650.6501 Construction Staking Structure Layout (structure) 09. S-13-0600	1.000 EACH	_____.____	_____.____
0758	650.6501 Construction Staking Structure Layout (structure) 10. S-13-0601	1.000 EACH	_____.____	_____.____
0760	650.6501 Construction Staking Structure Layout (structure) 11. S-13-0602	1.000 EACH	_____.____	_____.____
0762	650.6501 Construction Staking Structure Layout (structure) 12. S-13-0603	1.000 EACH	_____.____	_____.____
0764	650.6501 Construction Staking Structure Layout (structure) 13. S-13-0604	1.000 EACH	_____.____	_____.____
0766	650.7000 Construction Staking Concrete Pavement	33,770.000 LF	_____.____	_____.____
0768	650.8501 Construction Staking Electrical Installations (project) 01. 5845-16-73	1.000 EACH	_____.____	_____.____
0770	650.8501 Construction Staking Electrical Installations (project) 02. 5845-16-74	1.000 EACH	_____.____	_____.____
0772	650.9000 Construction Staking Curb Ramps	63.000 EACH	_____.____	_____.____

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Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0774	650.9500 Construction Staking Sidewalk (project) 01. 5845-16-73	1.000 EACH	_____.____	_____.____
0776	650.9500 Construction Staking Sidewalk (project) 02. 5845-16-74	1.000 EACH	_____.____	_____.____
0778	650.9911 Construction Staking Supplemental Control (project) 01. 5845-16-73	1.000 EACH	_____.____	_____.____
0780	650.9911 Construction Staking Supplemental Control (project) 02. 5845-16-74	1.000 EACH	_____.____	_____.____
0782	650.9920 Construction Staking Slope Stakes	35,083.000 LF	_____.____	_____.____
0784	652.0210 Conduit Rigid Nonmetallic Schedule 40 1-Inch	94.000 LF	_____.____	_____.____
0786	652.0220 Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	215.000 LF	_____.____	_____.____
0788	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	24,189.000 LF	_____.____	_____.____
0790	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	5,343.000 LF	_____.____	_____.____
0792	652.0700.S Install Conduit into Existing Item	1.000 EACH	_____.____	_____.____
0794	652.0800 Conduit Loop Detector	1,985.000 LF	_____.____	_____.____
0796	653.0154 Pull Boxes Non-Conductive 24x36-Inch	9.000 EACH	_____.____	_____.____
0798	653.0164 Pull Boxes Non-Conductive 24x42-Inch	93.000 EACH	_____.____	_____.____
0800	653.0210 Junction Boxes 10x10x6-Inch	2.000 EACH	_____.____	_____.____

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Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0802	653.0905 Removing Pull Boxes	38.000 EACH	_____.____	_____.____
0804	654.0101 Concrete Bases Type 1	14.000 EACH	_____.____	_____.____
0806	654.0102 Concrete Bases Type 2	9.000 EACH	_____.____	_____.____
0808	654.0105 Concrete Bases Type 5	112.000 EACH	_____.____	_____.____
0810	654.0106 Concrete Bases Type 6	4.000 EACH	_____.____	_____.____
0812	654.0110 Concrete Bases Type 10	4.000 EACH	_____.____	_____.____
0814	654.0111 Concrete Bases Type 11	25.000 EACH	_____.____	_____.____
0816	654.0113 Concrete Bases Type 13	1.000 EACH	_____.____	_____.____
0818	654.0217 Concrete Control Cabinet Bases Type 9 Special	2.000 EACH	_____.____	_____.____
0820	654.0224 Concrete Control Cabinet Bases Type L24	2.000 EACH	_____.____	_____.____
0822	654.0230 Concrete Control Cabinet Bases Type L30	5.000 EACH	_____.____	_____.____
0824	655.0230 Cable Traffic Signal 5-14 AWG	3,015.000 LF	_____.____	_____.____
0826	655.0260 Cable Traffic Signal 12-14 AWG	3,575.000 LF	_____.____	_____.____
0828	655.0270 Cable Traffic Signal 15-14 AWG	705.000 LF	_____.____	_____.____
0830	655.0305 Cable Type UF 2-12 AWG Grounded	2,885.000 LF	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0832	655.0610 Electrical Wire Lighting 12 AWG	46,180.000 LF	_____.____	_____.____
0834	655.0615 Electrical Wire Lighting 10 AWG	4,557.000 LF	_____.____	_____.____
0836	655.0620 Electrical Wire Lighting 8 AWG	86,302.000 LF	_____.____	_____.____
0838	655.0625 Electrical Wire Lighting 6 AWG	11,211.000 LF	_____.____	_____.____
0840	655.0700 Loop Detector Lead In Cable	6,365.000 LF	_____.____	_____.____
0842	655.0800 Loop Detector Wire	6,580.000 LF	_____.____	_____.____
0844	655.0900 Traffic Signal EVP Detector Cable	1,585.000 LF	_____.____	_____.____
0846	656.0201 Electrical Service Meter Breaker Pedestal (location) 01. USH 51 & Van Buren St	1.000 EACH	_____.____	_____.____
0848	656.0201 Electrical Service Meter Breaker Pedestal (location) 02. USH 51 & Kings Lynn Rd	1.000 EACH	_____.____	_____.____
0850	656.0201 Electrical Service Meter Breaker Pedestal (location) 03. USH 51 & Hamilton St	1.000 EACH	_____.____	_____.____
0852	656.0201 Electrical Service Meter Breaker Pedestal (location) 04. USH 51 & Jackson St	1.000 EACH	_____.____	_____.____
0854	656.0201 Electrical Service Meter Breaker Pedestal (location) 05. USH 51 & Rutland-Dunn Townline Road	1.000 EACH	_____.____	_____.____
0856	656.0201 Electrical Service Meter Breaker Pedestal (location) 06. USH 51 & CTH B	1.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0858	656.0201 Electrical Service Meter Breaker Pedestal (location) 07. Charles Lane Underpass	1.000 EACH	_____.____	_____.____
0860	656.0201 Electrical Service Meter Breaker Pedestal (location) 08. STA. 488+53 NB 72' LT	1.000 EACH	_____.____	_____.____
0862	656.0201 Electrical Service Meter Breaker Pedestal (location) 09. STA. 505+72 NB 69' LT	1.000 EACH	_____.____	_____.____
0864	657.0100 Pedestal Bases	3.000 EACH	_____.____	_____.____
0866	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	45.000 EACH	_____.____	_____.____
0868	657.0315 Poles Type 4	3.000 EACH	_____.____	_____.____
0870	657.0322 Poles Type 5-Aluminum	42.000 EACH	_____.____	_____.____
0872	657.0405 Traffic Signal Standards Aluminum 3.5-FT	1.000 EACH	_____.____	_____.____
0874	657.0425 Traffic Signal Standards Aluminum 15-FT	2.000 EACH	_____.____	_____.____
0876	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	5.000 EACH	_____.____	_____.____
0878	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	71.000 EACH	_____.____	_____.____
0880	658.0173 Traffic Signal Face 3S 12-Inch	43.000 EACH	_____.____	_____.____
0882	658.0174 Traffic Signal Face 4S 12-Inch	4.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0884	658.0416 Pedestrian Signal Face 16-Inch	20.000 EACH	_____.____	_____.____
0886	658.0500 Pedestrian Push Buttons	5.000 EACH	_____.____	_____.____
0888	658.5070 Signal Mounting Hardware (location) 01. USH 51 & Van Buren St	1.000 EACH	_____.____	_____.____
0890	658.5070 Signal Mounting Hardware (location) 02. USH 51 Kings Lynn Rd	1.000 EACH	_____.____	_____.____
0892	658.5070 Signal Mounting Hardware (location) 03. USH 51 & Jackson St	1.000 EACH	_____.____	_____.____
0894	659.1125 Luminaires Utility LED C	54.000 EACH	_____.____	_____.____
0896	659.1205 Luminaires Underdeck LED A	4.000 EACH	_____.____	_____.____
0898	659.2124 Lighting Control Cabinets 120/240 24-Inch	2.000 EACH	_____.____	_____.____
0900	659.2130 Lighting Control Cabinets 120/240 30-Inch	5.000 EACH	_____.____	_____.____
0902	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	70.000 EACH	_____.____	_____.____
0904	661.0201 Temporary Traffic Signals for Intersections (location) 01. USH 51 & Van Buren St	1.000 EACH	_____.____	_____.____
0906	661.0201 Temporary Traffic Signals for Intersections (location) 02. USH 51 & Kings Lynn Rd	1.000 EACH	_____.____	_____.____
0908	661.0201 Temporary Traffic Signals for Intersections (location) 03. USH 51 & Jackson St	1.000 EACH	_____.____	_____.____

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Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0910	661.0201 Temporary Traffic Signals for Intersections (location) 04. USH 51 & CTH B	1.000 EACH	_____.____	_____.____
0912	680.0100 Public Land Reference Monument Verify and Reset	4.000 EACH	_____.____	_____.____
0914	690.0150 Sawing Asphalt	9,092.000 LF	_____.____	_____.____
0916	690.0250 Sawing Concrete	9,315.000 LF	_____.____	_____.____
0918	715.0502 Incentive Strength Concrete Structures	2,874.000 DOL	1.00000	2,874.00
0920	715.0603 Incentive Strength Concrete Barrier	700.000 DOL	1.00000	700.00
0922	715.0715 Incentive Flexural Strength Concrete Pavement	46,364.000 DOL	1.00000	46,364.00
0924	740.0440 Incentive IRI Ride	18,530.000 DOL	1.00000	18,530.00
0926	999.1001.S Seismograph (project) 01. 5845-16-73	1.000 EACH	_____.____	_____.____
0928	999.1501.S Crack and Damage Survey	12.000 EACH	_____.____	_____.____
0930	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,100.000 HRS	5.00000	10,500.00
0932	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	6,480.000 HRS	5.00000	32,400.00
0934	SPV.0005 Special 01. Subsoiling	3.000 ACRE	_____.____	_____.____
0936	SPV.0035 Special 50. Lightweight Foamed Concrete Fill Grade 1	280.000 CY	_____.____	_____.____

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Federal ID(s): N/A, WISC 2026138, N/A

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0938	SPV.0035 Special 51. Lightweight Foamed Concrete Fill Grade 2	300.000 CY	_____.____	_____.____
0940	SPV.0035 Special 52. Cobble/Field Stone Mix	285.000 CY	_____.____	_____.____
0942	SPV.0035 Special 53. Rock Cross Vanes	30.000 CY	_____.____	_____.____
0944	SPV.0035 Special 54. Cascade Riffle Material	44.000 CY	_____.____	_____.____
0946	SPV.0060 Special 01. Inlet Covers Flat Temporary	42.000 EACH	_____.____	_____.____
0948	SPV.0060 Special 02. Habitat Boulder	54.000 EACH	_____.____	_____.____
0950	SPV.0060 Special 03. Research and Locate Existing Land Parcel Monuments	131.000 EACH	_____.____	_____.____
0952	SPV.0060 Special 04. Verify and Replace Existing Land Parcel Monuments	131.000 EACH	_____.____	_____.____
0954	SPV.0060 Special 05. Pedestal Bases - Black	11.000 EACH	_____.____	_____.____
0956	SPV.0060 Special 06. Transformer Bases Breakaway 11 1/2-INCH Bolt Circle - Black	73.000 EACH	_____.____	_____.____
0958	SPV.0060 Special 07. Poles Type 2 - Black	2.000 EACH	_____.____	_____.____
0960	SPV.0060 Special 08. Poles Type 3 - Black	2.000 EACH	_____.____	_____.____
0962	SPV.0060 Special 09. Poles Type 4 - Black	2.000 EACH	_____.____	_____.____
0964	SPV.0060 Special 10. Poles Type 5 - Aluminum - Black	67.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0966	SPV.0060 Special 11. Poles Type 10 - Black	3.000 EACH	_____.____	_____.____
0968	SPV.0060 Special 12. Poles Type 13 - Black	1.000 EACH	_____.____	_____.____
0970	SPV.0060 Special 13. Traffic Signal Standards Aluminum 3.5-FT - Black	3.000 EACH	_____.____	_____.____
0972	SPV.0060 Special 14. Traffic Signal Standards Aluminum 15-FT - Black	8.000 EACH	_____.____	_____.____
0974	SPV.0060 Special 15. Monotube Arms 30-FT - Black	3.000 EACH	_____.____	_____.____
0976	SPV.0060 Special 16. Monotube Arms 35-FT - Black	1.000 EACH	_____.____	_____.____
0978	SPV.0060 Special 17. Trombone Arms 15-FT - Black	2.000 EACH	_____.____	_____.____
0980	SPV.0060 Special 18. Luminaire Arms Single Member 4-Inch Clamp 6-FT - Black	4.000 EACH	_____.____	_____.____
0982	SPV.0060 Special 19. Luminaire Arms Truss Type 4 1/2-Inch Clamp 10-FT - Black	24.000 EACH	_____.____	_____.____
0984	SPV.0060 Special 20. Luminaire Arms Steel 6-FT - Black	4.000 EACH	_____.____	_____.____
0986	SPV.0060 Special 21. Luminaires Utility LED B - Black	71.000 EACH	_____.____	_____.____
0988	SPV.0060 Special 22. Luminaires Utility LED C - Black	4.000 EACH	_____.____	_____.____
0990	SPV.0060 Special 23. Lighting Units Walkway - Black	25.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0992	SPV.0060 Special 24. Toe Wood Logs	7.000 EACH	_____.____	_____.____
0994	SPV.0060 Special 25. Luminaires Underdeck LED B - Black	5.000 EACH	_____.____	_____.____
0996	SPV.0060 Special 26. Signal Controller and Cabinet (USH 51 & Van Buren St)	1.000 EACH	_____.____	_____.____
0998	SPV.0060 Special 27. Signal Controller and Cabinet (USH 51 & Kings Lynn Rd)	1.000 EACH	_____.____	_____.____
1000	SPV.0060 Special 28. Salvage and Reinstall Monotube Structures	1.000 EACH	_____.____	_____.____
1002	SPV.0060 Special 29. Remove, Reinstall, and Supplement RRFB Crossing System	1.000 EACH	_____.____	_____.____
1004	SPV.0060 Special 30. Salvage and Reinstall Light Pole	7.000 EACH	_____.____	_____.____
1006	SPV.0060 Special 31. Optical Signal Preempt-USH 51 & Van Buren St	1.000 EACH	_____.____	_____.____
1008	SPV.0060 Special 32. Optical Signal Preempt - USH 51 & Kings Lynn Rd	1.000 EACH	_____.____	_____.____
1010	SPV.0060 Special 33. Temporary Drain Slotted Vane	1.000 EACH	_____.____	_____.____
1012	SPV.0060 Special 34. Temporary Connection To Existing Storm Sewer	7.000 EACH	_____.____	_____.____
1014	SPV.0060 Special 35. Temporary Asphaltic Flumes	3.000 EACH	_____.____	_____.____
1016	SPV.0060 Special 36. Temporary Mailbox Station	1.000 EACH	_____.____	_____.____

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Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1018	SPV.0060 Special 37. Manhole Wier Wall (Structure ID 29)	1.000 EACH	_____.____	_____.____
1020	SPV.0060 Special 38. Manhole Wier Wall (Structure ID 30)	1.000 EACH	_____.____	_____.____
1022	SPV.0060 Special 39. Manhole Wier Wall (Structure ID 34)	1.000 EACH	_____.____	_____.____
1024	SPV.0060 Special 40. Manhole Weir Wall (Structure ID 99)	1.000 EACH	_____.____	_____.____
1026	SPV.0060 Special 41. Manhole Weir Wall (Structure ID 131A)	1.000 EACH	_____.____	_____.____
1028	SPV.0060 Special 42. Manhole Weir Wall (Structure 141A)	1.000 EACH	_____.____	_____.____
1030	SPV.0060 Special 43. Audible-Tactile Pedestrian Push Button System - Van Buren St	1.000 EACH	_____.____	_____.____
1032	SPV.0060 Special 44. Audible-Tactile Pedestrian Push Button System - Kings Lynn Rd	1.000 EACH	_____.____	_____.____
1034	SPV.0060 Special 45. Salvage Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	14.000 EACH	_____.____	_____.____
1036	SPV.0060 Special 46. Apron Endwalls for Culvert Pipe Temporary 12-Inch	8.000 EACH	_____.____	_____.____
1038	SPV.0060 Special 47. Apron Endwalls for Culvert Pipe Temporary 18-Inch	2.000 EACH	_____.____	_____.____
1040	SPV.0060 Special 48. Apron Endwalls for Culvert Pipe Temporary 21-Inch	1.000 EACH	_____.____	_____.____
1042	SPV.0060 Special 49. Habitat Log	6.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1044	SPV.0060 Special 50. Storm Sewer Tap	1.000 EACH	_____.____	_____.____
1046	SPV.0060 Special 51. Removing Lighting System Charles Lane Pedestrian Underpass	1.000 EACH	_____.____	_____.____
1048	SPV.0060 Special 52. Settlement Gauges Special	17.000 EACH	_____.____	_____.____
1050	SPV.0060 Special 53. Temporary Stream Diversion Culvert B-13-922	1.000 EACH	_____.____	_____.____
1052	SPV.0060 Special 54. Field Office Special	1.000 EACH	_____.____	_____.____
1054	SPV.0060 Special 55. Construction Staking Stormwater Management Ponds	6.000 EACH	_____.____	_____.____
1056	SPV.0060 Special 56. Utility Line Opening (ULO)	25.000 EACH	_____.____	_____.____
1058	SPV.0060 Special 57. Temporary Water Diversion Unnamed Stream Realignment Sta. 586+50-593+50 NB	1.000 EACH	_____.____	_____.____
1060	SPV.0060 Special 58. Temporary Lighting System Roby Road Roundabout	1.000 EACH	_____.____	_____.____
1062	SPV.0060 Special 59. Temporary Lighting System Rutland-Dunn Townline Road Roundabout	1.000 EACH	_____.____	_____.____
1064	SPV.0060 Special 60. Temporary Lighting System CTH B (East) Roundabout	1.000 EACH	_____.____	_____.____
1066	SPV.0060 Special 61. Dewatering Pond 1	1.000 EACH	_____.____	_____.____
1068	SPV.0060 Special 62. Junction Boxes 8x8x6-Inch	2.000 EACH	_____.____	_____.____
1070	SPV.0060 Special 63. Junction Boxes 4x4x4	3.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1072	SPV.0060 Special 64. Removing Weigh-In-Motion Scale System	1.000 EACH	_____.____	_____.____
1074	SPV.0060 Special 65. Relocating Landscaping Boulder	1.000 EACH	_____.____	_____.____
1076	SPV.0060 Special 66. Fish Sticks	4.000 EACH	_____.____	_____.____
1078	SPV.0060 Special 67. Replace Water Valve Box	1.000 EACH	_____.____	_____.____
1080	SPV.0060 Special 68. Curb Stop Vault	1.000 EACH	_____.____	_____.____
1082	SPV.0060 Special 69. 10-Inch x 6-Inch Tee	1.000 EACH	_____.____	_____.____
1084	SPV.0060 Special 70. Abandon Existing Water Main	7.000 EACH	_____.____	_____.____
1086	SPV.0060 Special 71. Connect to Existing Water Main	15.000 EACH	_____.____	_____.____
1088	SPV.0060 Special 72. 8-Inch D.I. Cross	3.000 EACH	_____.____	_____.____
1090	SPV.0060 Special 73. 8-Inch D.I. Cap	4.000 EACH	_____.____	_____.____
1092	SPV.0060 Special 74. 8-Inch D.I. 11.25-Degree Bend	2.000 EACH	_____.____	_____.____
1094	SPV.0060 Special 75. 8-Inch D.I. 22.5-Degree Bend	3.000 EACH	_____.____	_____.____
1096	SPV.0060 Special 76. 8-Inch D.I. 45-Degree Bend	24.000 EACH	_____.____	_____.____
1098	SPV.0060 Special 77. 8-Inch x 6-Inch Reducer	3.000 EACH	_____.____	_____.____
1100	SPV.0060 Special 78. 8-Inch x 6-Inch Tee	4.000 EACH	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1102	SPV.0060 Special 79. 8-Inch x 8-Inch Tee	4.000 EACH	_____.____	_____.____
1104	SPV.0060 Special 80. 8-Inch Gate Valve and Box	10.000 EACH	_____.____	_____.____
1106	SPV.0060 Special 81. 6-Inch Gate Valve and Box	3.000 EACH	_____.____	_____.____
1108	SPV.0060 Special 82. Fire Hydrant	3.000 EACH	_____.____	_____.____
1110	SPV.0060 Special 83. Remove Existing Fire Hydrant	3.000 EACH	_____.____	_____.____
1112	SPV.0060 Special 84. Curb Stop 1-Inch	15.000 EACH	_____.____	_____.____
1114	SPV.0060 Special 85. Water Service Tap, Saddle, Corporation Stop, 1-Inch	15.000 EACH	_____.____	_____.____
1116	SPV.0060 Special 86. Connect to Existing Sanitary Sewer	12.000 EACH	_____.____	_____.____
1118	SPV.0060 Special 87. Adjust Sanitary Sewer Manhole Casting	4.000 EACH	_____.____	_____.____
1120	SPV.0060 Special 88. Replace Sanitary Manhole Casting	5.000 EACH	_____.____	_____.____
1122	SPV.0060 Special 89. Plug Existing Sanitary Manhole	4.000 EACH	_____.____	_____.____
1124	SPV.0060 Special 90. Sanitary Drop Manhole 48-Inch	2.000 EACH	_____.____	_____.____
1126	SPV.0060 Special 91. Sanitary Manhole 48-Inch	6.000 EACH	_____.____	_____.____
1128	SPV.0060 Special 92. Remove Existing Sanitary Manhole	11.000 EACH	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1130	SPV.0060 Special 93. 18-Inch x 4-Inch Wye	2.000 EACH	_____.____	_____.____
1132	SPV.0060 Special 94. 8-Inch x 4-Inch Wye	18.000 EACH	_____.____	_____.____
1134	SPV.0060 Special 95. 10-Inch D.I. 45-Degree Bend	8.000 EACH	_____.____	_____.____
1136	SPV.0060 Special 96. Adjust Water Valve	15.000 EACH	_____.____	_____.____
1138	SPV.0060 Special 97. Shorten Hydrant Lead	1.000 EACH	_____.____	_____.____
1140	SPV.0060 Special 98. Hydrant Relocation	3.000 EACH	_____.____	_____.____
1142	SPV.0060 Special 99. Relocate Curb Stop 1-Inch	3.000 EACH	_____.____	_____.____
1144	SPV.0060 Special 991. J-Hook	2.000 EACH	_____.____	_____.____
1146	SPV.0060 Special 992. Temporary Utility Connection	3.000 EACH	_____.____	_____.____
1148	SPV.0060 Special 993. Sanitary Sewer Bypass Pumping	1.000 EACH	_____.____	_____.____
1150	SPV.0060 Special 994. Temporary Water Service	1.000 EACH	_____.____	_____.____
1152	SPV.0060 Special 995. Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT - Black	40.000 EACH	_____.____	_____.____
1154	SPV.0060 Special 996. Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT - Black	3.000 EACH	_____.____	_____.____
1156	SPV.0085 Special 01. Native Pollinator Seeding Mixture No. 95A	6.900 LB	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1158	SPV.0090 Special 01. Pipe Underdrain (6-Inch) with Geotextile Fabric and Aggregate	16,932.000 LF	_____.____	_____.____
1160	SPV.0090 Special 02. Temporary Storm Sewer Class III-A 12-Inch	24.000 LF	_____.____	_____.____
1162	SPV.0090 Special 51. Culvert Pipe Reinforced Conc Horizontal Elliptical Class HE-IV 38x60-Inch	106.000 LF	_____.____	_____.____
1164	SPV.0090 Special 52. Culvert Pipe Reinforced Conc Horizontal Elliptical Class HE IV 68x106-Inch	224.000 LF	_____.____	_____.____
1166	SPV.0090 Special 70. 6-Inch D.I. Water Main	191.000 LF	_____.____	_____.____
1168	SPV.0090 Special 71. 8-Inch D.I. Water Main	1,674.000 LF	_____.____	_____.____
1170	SPV.0090 Special 76. Remove Existing Water Main	416.000 LF	_____.____	_____.____
1172	SPV.0090 Special 77. Trench Backfill - Water Main	1,912.000 LF	_____.____	_____.____
1174	SPV.0090 Special 78. 1-Inch Copper Water Service	456.000 LF	_____.____	_____.____
1176	SPV.0090 Special 79. 18-Inch PVC Sanitary Sewer	477.000 LF	_____.____	_____.____
1178	SPV.0090 Special 80. 8-Inch PVC Sanitary Sewer	1,376.000 LF	_____.____	_____.____
1180	SPV.0090 Special 81. Slurry Fill and Abandon Existing 18-Inch Sanitary Sewer	330.000 LF	_____.____	_____.____
1182	SPV.0090 Special 82. Slurry Fill and Abandon Existing 8-Inch Sanitary Sewer	1,227.000 LF	_____.____	_____.____
1184	SPV.0090 Special 83. Remove Existing Sanitary Sewer	1,165.000 LF	_____.____	_____.____

Proposal ID: 20260210047 **Project(s):** 5845-16-73, 5845-16-74, 5845-16-83

Federal ID(s): N/A, WISC 2026138, N/A

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1186	SPV.0090 Special 84. Trench Backfill - Sanitary Sewer	2,076.000 LF	_____.____	_____.____
1188	SPV.0090 Special 85. 4-Inch PVC Sanitary Sewer	754.000 LF	_____.____	_____.____
1190	SPV.0090 Special 86. 10-Inch D.I. Water Main	49.000 LF	_____.____	_____.____
1192	SPV.0090 Special 87. 10-Inch PVC Sanitary Sewer	223.000 LF	_____.____	_____.____
1194	SPV.0165 Special 01. Concrete Sidewalk Special	924.000 SF	_____.____	_____.____
1196	SPV.0165 Special 50. Wall Concrete Panel Mechanically Stabilized Earth R-13-387	750.000 SF	_____.____	_____.____
1198	SPV.0165 Special 51. Wall Concrete Panel Mechanically Stabilized Earth R-13-388	2,180.000 SF	_____.____	_____.____
1200	SPV.0165 Special 52. Wall Concrete Panel Mechanically Stabilized Earth R-13-389	1,980.000 SF	_____.____	_____.____
1202	SPV.0165 Special 53. Wall Concrete Panel Mechanically Stabilized Earth R-13-390	725.000 SF	_____.____	_____.____
	Section: 0001		**Total:**	_____.____

Total Bid: _____.____

PLEASE ATTACH ADDENDA HERE