HIGHWAY WORK PROPOSAL

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

Proposal Number: 006

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Dane	5310-02-75	WISC 2022380	Spring Green - Madison; Pleasant View Road Intersection	USH 014
Dane	5992-11-01	WISC 2022382	C Middleton, Pleasant View Road; Timber Wolf Trail To Ush 14	LOC STR
Dane	5992-11-02	N/A	C Of Middleton, Pleasant View Road; Timber Wolf Trail To Ush 14	LOC STR

ADDENDUM REQUIRED

ATTACHED AT BACK

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

Proposal Guaranty Required: $540,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: September 13, 2022 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time June 28, 2024	This contract is exempt from federal oversight.
Assigned Disadvantaged Business Enterprise Goal 5%	

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

For Department Use Only

Type of Work:
Grading, Base, Asphalt Pavement, Pedestrian Bridge, Retaining Walls, Culvert Pipe, Storm Sewer, Curb and Gutter, Sidewalk, Concrete Truck Apron, Trees, Pavement Markings, Signs, Traffic Signals, Street Lighting, Sanitary Sewer, Watermain

Notice of Award Dated	Date Guaranty Returned

PLEASE ATTACH
PROPOSAL GUARANTY HERE

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

(1) Obtain bidding proposals as specified in section 102 of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:

1. Electronic bid on the internet.
2. Electronic bid on a printout with accompanying diskette or CD ROM.
3. Paper bid under a waiver of the electronic submittal requirements.

(2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.

(3) The department will provide bidding information through the department's web site at:
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 departments 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:

1. Have a properly executed annual bid bond on file with the department.

2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.

(2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:

1. Download the latest schedule of items reflecting all addenda from the Bid Express™ 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.

C Waiver of Electronic Submittal

(1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.

(2) Submit a schedule of items on paper conforming to section 102 of the standard specifications. The department charges the bidder a $75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."

(3) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:

1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
2. The bidder fails to pay the $75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the $75.
3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.

(4) In addition to the reasons specified in section 102 of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

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)

March 2010

LIST OF SUBCONTRACTORS

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

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

Name of Subcontractor	Class of Work	Estimated Value

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 5310-02-75, Spring Green - Madison, Pleasant View Road Intersection, USH 14; Project 5992-11-01, C Middleton, Pleasant View Road, Timber Wolf Trail to USH 14, Local Street; Project 5992-11-02, C of Middleton, Pleasant View Road, Timber Wolf Trail to USH 14, Water and Sanitary; all projects located in 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, 2022 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 (20220107)

2. Scope of Work.

The work under this contract shall consist of grading, base aggregate dense, HMA Pavement, Structures B-13-892, R-13-362 to 369, concrete sidewalk, asphaltic surface temporary, concrete curb and gutter, storm sewer, marking, signing, traffic control, signals and lighting, sanitary sewer, water main, erosion control, finishing items, planting, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within 10 calendar days after the engineer issues a written notice to do so.

Provide the start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within 10 calendar days before the approved start date.

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

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

Be advised that there may be multiple mobilizations and/or remobilizations to complete construction operations, for example such items as: HMA pavement, concrete sidewalk, concrete curb and gutter, traffic control, signing, pavement marking, traffic signals, street lighting, finishing items and other incidental items related to the staging. No additional payment will be made, by the department, for additional mobilizations.

B Contractor Coordination and Advance Notification

Have a superintendent or designated representative for the prime contractor on the job site during all work operations, including periods limited to only subcontractor work operations, to serve as a primary contact person and to coordinate all work operations.

Hold progress meetings once a week. The contractor's superintendent or designated representative and subcontractor's representatives for ongoing subcontract work or subcontractor work to begin within the next two weeks are to attend and provide a written schedule of the next week(s) operations. Include begin and end dates of specific prime and subcontractor work operations. Agenda items to include review of contractor's schedule and subcontractor's schedule, evaluation of progress and pay items, and revisions if necessary. Plans and specifications for upcoming work will be reviewed to prevent potential problems or conflicts between contractors.

Based on the progress meeting, if a new revised schedule is requested by the engineer, submit it within seven calendar days. Failure to submit a new schedule within seven days shall result in the engineer holding pay requests until received.

Maintain access for mail delivery and garbage/recycling pickup for all properties in the project area.

Notify Madison Metro transit system two weeks prior to construction. Notify one week prior to traffic switches and street closures. Contact Tim Sobota at (608) 261-4289.

Contact and coordinate with City of Madison for signal timing and phasing setup for temporary signals at Blackhawk Road a minimum of two weeks prior to the start of a traffic change or stage. City of Madison contact is Gretchen Aviles Pineiro (608) 266-4899.

Notify the Pleasant View Golf Course (PVGC) General Manager, Jeremy Cabalka, at (608) 827-7440 at least seven days prior to any activity that would impact access to the Pleasant View Golf Course. Provide written documentation of coordination with the PVGC General Manager to the engineer prior to the start of work that would impact access to the Pleasant View Golf Course.

Notify the Pleasant View Golf Course (PVGC) General Manager, Jeremy Cabalka, at (608) 827-7440 for specific location and timing of placement of waste material from excavation common for use by others to complete golf course hole modifications. Begin placement of excess material and mass grading of berms along the Pleasant View Golf Course as shown on the plans after June 1, 2023. Complete placement of excess material along the Pleasant View Golf Course as shown on the plans by July 1, 2023. Final shaping of the mass grading of berms along the Pleasant View Golf Course as shown on the plans and placement of finishing items will be completed by others as part of improvements being constructed for the Pleasant View Golf Course.

Notify business owners and residents at least two days prior to restricting access and three days prior to closing access. Schedule sidewalk and driveway approach removal and replacement so that the time lapse between removal and replacement is minimal. See the Traffic article of these special provisions for information on residential and business property access.

Notify the Middleton Municipal Airport if any type of crane or lift is to be used. When notifying the airport provide the height of the crane or lift to be used and for what time period it will be used. If the schedule for using the crane or lift changes, immediately contact the airport to make them aware of the change. Provide a minimum of five working days' notice to:

Airport Operations

(608) 836-1711

C Work Restrictions

Excavation material and cleared and grubbed material shall be stockpiled on upland areas an adequate distance away from wetlands, storm sewer inlets, floodplains, and the waterways as determined by the engineer.

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

Equip vehicles with a tailgate and adequate sideboards when hauling material subject to spillage on all roadways. Use covers and/or other protective devices to prevent spillage as directed by the engineer. Immediately clean up any debris or spillage that falls onto live traffic lanes or shoulders.

Once concrete sidewalks are poured, take necessary precautions to preserve the condition of the new concrete items. Any pavement or sidewalk that is damaged shall be replaced at the contractor's expense.

Comply with all city of Madison and city of Middleton ordinances that apply to local street work operations, including those pertaining to working during nighttime hours. Furnish any ordinance variance issued by the municipality or required permits to the engineer in writing three business days prior to performing such work.

Existing trees, street light poles, and other utility poles are to remain in place during construction unless otherwise noted in the plan. Conduct an on-site visit prior to bidding to determine any special measures required for proper clearance between features for the paving and grading equipment.

Provide ingress and egress locations to the engineer 10 working days in advance of anticipated use. Do not use the ingress or egress locations until approved by the engineer. Sign and/or use flag persons at the ingress and egress locations as directed by the engineer and according to standard spec 104.6.1.2.2.

Do not switch traffic to the next construction stage until all signing, pavement marking, traffic control devices for the stage are in place, conflicting pavement markings and signs are covered or removed, and as directed by the engineer.

Parcel 7 (1109 Pleasant View Road) may be developing during the reconstruction of Pleasant View Road and Blackhawk Road. Do not store any materials or equipment within the Temporary Limited Easement along the property for the duration of this contract. Utilize the Temporary Limited Easement only for grading and shaping the slope behind the proposed concrete sidewalk to match existing grades. The contact person for this parcel is Brett Rimkus, (608) 661-1143, brett.rimkus@singlewire.com. Coordinate with Brett and the development contractor regarding work within the Temporary Limited Easement.

Do not store any materials or equipment on Parcel 24 (1987 Pleasant View Road) within the Temporary Limited Easement along the property for the duration of this contract. Utilize the Temporary Limited Easement only for constructing the proposed driveway entrance. Reconstruct the proposed commercial entrance at Station 51+30Q Left one-half at a time. Provide a temporary driveway connection at all times between Parcel 23 and Parcel 24 for use by the property owner.

Northern Long-eared Bat *(Myotis septentrionalis)*

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

According to the final 4(d) rule issued for the NLEB, the department has determined that the proposed activity may affect, but will not result in prohibited take of the NLEB. The activity involves tree removal but will not occur within 0.25 miles of a known hibernacula, nor will the activity remove a known maternity roost tree or any other tree within 150 feet of a known maternity roost tree.

If additional trees need to be removed, no Clearing shall occur without prior approval from the engineer, following coordination with the WisDOT REC. Additional tree removal beyond the area originally specified will require consultation with the United States Fish and Wildlife Service (USFWS) and may require a bat presence/absence survey. Notify the engineer if additional Clearing cannot be avoided to begin coordination with the WisDOT REC. The WisDOT REC will initiate consultation with the USFWS and determine if a survey is necessary.

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

Oak Wilt

In order to prevent the spread of oak wilt disease, no vegetation clearing and grubbing of oak trees within the identified clearing and grubbing limits will be allowed from April 1 to September 30, both dates inclusive.

Remove all oak trees that require removal for construction before April 1 or after September 30.

D Work Completion Requirements

Fall 2022 Building Removal

Complete building removals as shown in the plans by December 16, 2022. Other work as approved by the engineer may be completed prior to December 16, 2022.

Winter Shutdown 2022

Winter shutdown will commence with the completion of removing buildings and other work completed prior to December 16, 2022. Do not resume work until March 15, 2023 unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned recommencement of work in 2023. Upon approval the engineer will issue the notice to proceed within 10 days of the approved start date.

Stage 1 Clearing and Grubbing

Complete all clearing and grubbing work between March 15 and October 14 to comply with the commitment to remove forested habitat of the Rusty Patched Bumble Bee during the species active season.

Interim Completion and Liquidated Damages – Stage 2 USH 14 Lane Closures: 25 Calendar Days

During Stage 2, close one eastbound and one westbound outside travel lane on USH 14 to through traffic for a maximum of 25 calendar days. Do not reopen until completing the following work: all removals, grading, storm sewer, base aggregate dense, concrete base, concrete curb and gutter, asphalt pavement, temporary traffic signals, placement of traffic control devices, and restoration necessary to complete the right turn lanes and open them to traffic.

If the contractor fails to complete the work necessary to reopen the USH 14 outside travel lanes to traffic within 25 calendar days, the department will assess the contractor $2,175 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 25 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

Winter Shutdown 2023

Winter shutdown will commence with the completion of Stage 3 in the Fall of 2023. Do not resume work until March 25, 2024 unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned recommencement of work in 2024. Upon approval the engineer will issue the notice to proceed within 10 days of the approved start date.

Interim Completion and Liquidated Damages – Stage 4 USH 14 Lane Closures: 30 Calendar Days

During Stage 4, close one eastbound and one westbound inside travel lane on USH 14 to through traffic for a maximum of 30 calendar days. Do not reopen until completing the following work: all removals, grading, storm sewer, base aggregate dense, concrete base, concrete curb and gutter, asphalt pavement, temporary traffic signals, permanent traffic signals, placement of traffic control devices, and restoration necessary to complete the left turn lanes and open them to traffic.

If the contractor fails to complete the work necessary to reopen the USH 14 inside travel lanes to traffic within 30 calendar days, the department will assess the contractor $2,175 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 30 calendar days. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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.

E Allowable Full Closures and Lane Closures

Request approval from the engineer for all closures following the Wisconsin Lane Closure System table in the Traffic article. 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 as described in the Lane Rental Fee Assessment article.

USH 14 Eastbound Weekday and Weekend Allowable Lane Closure Hours

During Stage 3, keep two USH 14 eastbound travel lanes open to through traffic at all times, except during allowable lane closure hours. The number of USH 14 eastbound lanes open to through traffic may be reduced from two to one as shown in the plans during allowable lane closure hours. When the USH 14 eastbound outside lane is open to traffic, place material within the adjacent work zone to provide a maximum of 3:1 slope adjacent to the open travel lane.

Weekday allowable lane closure hours for USH 14 eastbound during Stage 3 applies from 12:00 AM Monday morning to 11:59 PM Friday evening. Weekday allowable lane closure hours start at 9:00 AM and conclude at 3:00 PM and also start at 8:00 PM and conclude at 5:00 AM.

Weekend allowable lane closure hours for USH 14 eastbound during Stage 3 applies from 12:00 AM Saturday morning to 11:59 PM Sunday evening. Weekend allowable lane closure hours start at 7:00 PM and conclude at 7:00 AM.

Pleasant View Road and Blackhawk Road Full Closures

Pleasant View Road will be allowed to be closed to all traffic during Stage 2 for up to 10 nights (total) between 9:00 PM and 5:00 AM for the installation of storm sewer crossings. Do not reopen Pleasant View Road until the storm sewer trench is backfilled, paved with asphaltic surface temporary, and all debris and equipment are removed from the traveled way. Request approval from the engineer for all closures.

Blackhawk Road will be allowed to be closed to all traffic during Stage 2 for up to three nights (total) between 9:00 PM and 5:00 AM for the installation of storm sewer crossings. Do not reopen Blackhawk

Road until the storm sewer trench is backfilled, paved with asphaltic surface temporary, and all debris and equipment are removed from the traveled way. Request approval from the engineer for all closures.

4. Lane Rental Fee Assessment.

Do not close Pleasant View Road to all traffic during Stage 2 or close USH 14 eastbound traffic lanes during Stage 3 outside the allowed time periods specified in the Prosecution and Progress article. If the contractor closes lanes prior to the specified timeframe, or fails to open lanes within the specified timeframe, the department will assess lane rental fees as shown below:

Closure Outside Allowed Time Period	15-minute Lane Rental Fee (per lane)	Cumulative Lane Rental Fee (per lane)
0-15 minutes	$250	$250
15-30 minutes	$500	$750
30-45 minutes	$750	$1,500
> 45 minutes	$1,000*	$2,500 and up

* Lane rental fees will continue to be assessed at this rate per 15 minutes.

If a lane is obstructed at any time due to contractor operations, it is considered a closure. The total lane rental fee assessed to the contractor will be the summation of separate fees for each traffic lane and each direction of traffic in violation. The department will administer lane rental fees under the Failing to Open Road to Traffic administrative item.

Lane rental fees will not be assessed for lane closures due to crashes, incidents or emergencies not initiated by the contractor.

The department may elect to consider work done during unauthorized lane closure time periods as unauthorized work according to standard spec 105.3.2.3.

5. Traffic.

General

The traffic requirements are subject to change at the direction of the engineer in the event of an emergency, local event, or significant traffic delays.

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 before the preconstruction conference, or if after the preconstruction conference, 14 days before the intended use of the revised traffic control. A request does not constitute approval.

Do not disturb, remove, or obliterate any traffic control signs, or advisory signs in place along the traveled roadways without the approval of the engineer. Immediately repair or replace any damage done to the above during the construction operations at contractor’s expense.

Provide 24 hours-a-day availability of equipment and forces to expeditiously restore devices such as, but not limited to, pavement marking, lights, signs, drums, barricades, arrow boards or other traffic control devices that are damaged or disturbed. The department will pay for materials that the engineer deems necessary to maintain these items at contract unit prices, or as extra work, if the disturbance or damage is not the result of the contractor’s operations, negligence or noncompliance with the requirements of the contract.

Conduct operations in such a manner that causes the least interference and inconvenience to the free flow of vehicles, bicyclists, and pedestrians on the roadways, sidewalks, and path. This includes the following:

- Do not park or store any vehicle, piece of equipment, or construction materials within the roadway lateral clearance or on adjacent streets beyond the project limits without approval of the engineer.
- No operations shall take place until all traffic control devices for such work are in the proper location.

- All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic, bicyclists, and pedestrians.
- Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing yellow signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1,000 feet. Activate the beam when merging into or exiting a live traffic lane.
- Do not deliver and store materials and equipment within open travel lanes or open side roads or sidewalks during any stage of construction. Temporary lane closures and/or halting of traffic within open roadways is not permitted unless mentioned specifically below. Flagging operations will be incidental to the work item being performed for the contract according to the standard specifications.

Maintain areas for turning vehicles at all times except for specific construction operations in those areas. Undistributed quantities of Base Aggregate Dense 1 1/4-Inch are included in this contract to accommodate the turning movements.

Maintain a minimum of 1 foot of lateral clearance from the edge of live travel lanes to all traffic control devices.

Upon switching traffic to temporary pavement, designate a representative to monitor the condition of the temporary pavement for a period of not less than 8 hours after the switch and prior to beginning any work that may take place upon the existing roadway after completion of the traffic switch. Should the temporary pavement show signs of failure, immediately notify the engineer.

The project includes street lighting and traffic signals. Maintain existing traffic signals and functionality of the lighting system during the project with existing lighting or temporary lighting. Maintain existing traffic signals at intersections until temporary traffic signals are in place and operating at that intersection. The City of Madison Traffic Engineering department will set timing of signals at Blackhawk Road after the contractor has installed the temporary signals. The Wisconsin Department of Transportation will set timing of signals at USH 14 after the contractor has installed the temporary and permanent signals.

General Traffic Operations During All Stages

Conform the schedule of operations to the construction staging as shown in the traffic control plans and as described in this article unless modifications to the schedule are approved in writing by the engineer.

Maintain one lane of traffic in each direction at all times on Pleasant View Road and intersecting roadways except for closures and detours defined in this article.

Maintain a minimum lane width of 11 feet at all times during construction unless shown otherwise in the plans.

For both directions of Pleasant View Road and for side roads within 500 feet of the construction Monday through Friday, flagging following the Standard Detail Drawing “Traffic Control For Lane Closures With Flagging Operation” is allowable during the off peak hours of 9:00 AM to 3:30 PM. For both directions of Pleasant View Road and for side roads within 500 feet of the construction on Saturday and Sunday, flagging following the Standard Detail Drawing “Traffic Control For Lane Closures With Flagging Operation” is allowable during the off peak hours of 8:00 AM to 4:00 PM. Requests for single lane flagging operations are subject to the engineer’s approval and are to be submitted to the engineer for review and approval 3 business days before the requested date.

Flagging is not permitted along USH 14. For closing lanes on USH 14 use lane closures as shown in the plans and as discussed in the Prosecution and Progress article.

During full closures for the installation of storm sewer crossings, follow Standard Detail Drawing “Barricades and Signs for Various Closures” Detail D to close Pleasant View Road or Blackhawk Road.

Utility Trench Restrictions

Limit the length of open utility trenches adjacent to live travel lanes to 100 feet or less. Backfill or plate utility trenches adjacent to live travel lanes during non-working hours. Conform the work zone protection according to standard spec 104.6.1.2.3.

Property Access

Maintain access to all commercial and private entrances and access for deliveries to all properties at all times for local residents, businesses, emergency vehicles, garbage pickup, deliveries, and postal services

on existing pavement, temporary pavement, or base aggregate dense according to the plans or as directed by the engineer. Maintain a minimum travel width of 20 feet for temporary access to business entrances and a minimum travel width of 10 feet for temporary access to residential entrances. Also maintain accommodation for deliveries to properties made from the roadway. Additional intermediate construction staging or staging gaps, not shown on the plans, may be necessary to maintain continuous access to all properties. A minimum of one driveway access shall be maintained at all times for businesses having multiple access points. Contact the property owner 48 hours prior to removing any existing entrance or impacting areas typically used for deliveries from the roadway in order to coordinate temporary closures and delivery schedules. Restore private entrances, including a gravel surface, within 12 hours of removal.

If the contractor coordinates the closure of any access to a business or private property with the owner(s), provide written documentation of coordination with the owner(s) to the engineer, prior to the start of work regarding the access closure.

Pedestrian Access

Maintain pedestrian access according to current Americans with Disabilities Act Accessibility Guidelines (ADAAG), within the project limits where existing pedestrian facilities are located by means of existing sidewalk, Temporary Pedestrian Surface bid items, Temporary Pedestrian Curb Ramp bid item, or new sidewalk at a minimum width of 5 feet. Preserve the existing sidewalk as long as practicable to maintain pedestrian access. Provide temporary pedestrian access as detailed in the plans and as directed by the engineer. Place Temporary Pedestrian Barricade as shown in the plans and as directed by the engineer. When required as shown in the plans, close sidewalks according to the standard detail drawing “Traffic Control, Pedestrian Accommodation.”

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**
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

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

Traffic Control Signs PCMS

Install Traffic Control Signs PCMS on Pleasant View Road 7 days in advance of the start of Stage 1. Install Traffic Control Signs PCMS on Pleasant View Road and USH 14 7 days in advance of starting Stage 2. Install Traffic Control Signs PCMS on Greenway Boulevard and Blackhawk Road 3 days prior to closure and detour of these roads in Stage 2 and Stage 3. These timeframes may be adjusted by the engineer.

Coordinate the locations of Traffic Control Signs PCMS with the engineer. Obtain acceptance from the engineer for all messages for all Traffic Control Signs PCMS.

Advance Notification

Notify City of Madison and City of Middleton first responders (police, fire, EMS), Dane County Sheriff's Department, engineer, City of Madison traffic engineering, City of Middleton Public Works, Madison Metro Transit, Madison Metropolitan School District, Middleton-Cross Plains School District, garbage/recycling pick-up companies, and the post office two weeks in advance of all traffic switches, lane closures, road closures, and detours. Notifications should be confirmed with all parties one week before implementation. Parties shall also be notified if a closure is cancelled.

Notify Eric Heggelund, Wisconsin Department of Natural Resources Transportation Liaison at (608) 275-3301 a minimum of two working days prior to beginning construction.

Traffic Control Operations

This information is included to assist the contractor and its subcontractors; do not interpret this information as a demonstration of specified means and methods. Coordinate the schedule of operations for the construction staging as shown in the plans and as noted in these special provisions. Do not move operations within the proposed construction staging unless modifications to the staging and schedule are approved in writing by the engineer. Address traffic, construction, transit, bicyclists, and pedestrians with any proposed staging modifications provided to the engineer.

Fall 2022:

Traffic:

- Pleasant View Road: No closures. Maintain full access.
- University Avenue (USH 14): No closures. Maintain full access.
- Timber Wolf Trail: No closures. Maintain full access.
- Blackhawk Road: No closures. Maintain full access.
- Greenway Boulevard: No closures. Maintain full access.
- Quarry Road: No closures. Maintain full access.

Pedestrians:

- Maintain full access.

Greenway Center Trail:

- Maintain full access.

2022/2023 Winter Work Suspension:

Traffic:

- Pleasant View Road: No closures. Maintain full access.
- University Avenue (USH 14): No closures. Maintain full access.
- Timber Wolf Trail: No closures. Maintain full access.
- Blackhawk Road: No closures. Maintain full access.
- Greenway Boulevard: No closures. Maintain full access.
- Quarry Road: No closures. Maintain full access.

Pedestrians:

- Maintain full access.

Greenway Center Trail:

- Maintain full access.

Stage 1:

Traffic:

- Pleasant View Road: No closures and maintain full access except may close one lane using the standard detail drawing "Traffic Control For Lane Closure With Flagging Operation" between 9:00 AM and 3:30 PM Monday through Friday and between 8:00 AM and 4:00 PM Saturday and Sunday. Close and detour Pleasant View Road as shown in the plans to allow for the replacement of the railroad crossing at Station 181+40.
- University Avenue (USH 14): No closures and maintain full access except close and detour USH 14 as shown in the plans to allow for the replacement of the railroad crossing at Station 103+50 U.
- Timber Wolf Trail: No closures. Maintain full access.
- Blackhawk Road: No closures. Maintain full access.
- Greenway Boulevard: No closures. Maintain full access.
- Quarry Road: No closures. Maintain full access.

Construction:

- Pleasant View Road: Construct temporary pavement in the median south of Timber Wolf Trail and widening of Pleasant View Road as shown in the plans. Complete clearing and grubbing. Construct temporary drainage items and complete grading for ponds D, E, and F. Complete storm sewer from Structure PV509 to Pond F. Complete excavation common and excavation rock between Station 152+00 and 162+00 RT as shown on the cross sections.
- University Avenue (USH 14): No work. Maintain existing pavement.
- Timber Wolf Trail: No work. Maintain existing pavement.
- Blackhawk Road: No work. Maintain existing pavement.
- Greenway Boulevard: No work. Maintain existing pavement.
- Quarry Road: No work. Maintain existing pavement.

Pedestrians:

- Maintain full access.

Greenway Center Trail:

- Maintain full access.

Stage 2:

Traffic:

- Pleasant View Road: Close to through traffic and detour as shown in the plans. Maintain local traffic on a combination of existing lanes and temporary widening as shown in the plans.
- University Avenue (USH 14): Extend and maintain one travel lane eastbound using the inside travel lane as shown in the plans. Close the westbound outside lane using a temporary single-lane closure and by closing the outside lane as shown in the plans. Maintain a minimum 12-foot travel lane width.
- Timber Wolf Trail: Close at Pleasant View Road and detour as shown in the plans.
- Blackhawk Road: No closures and maintain full access except may close one lane using the standard detail drawing "Traffic Control For Lane Closure With Flagging Operation" between 9:00 AM and 3:30 PM.
- Greenway Boulevard: Close to through traffic and detour as shown in the plans.
- Quarry Road: No closures. Maintain full access.

Construction:

- Pleasant View Road: Construct southbound from Station 108+32 to 129+50, northbound from Station 129+25 to 156+00, northbound and southbound from Station 156+00 to 166+00, southbound from Station 166+00 to 182+06, and southbound from Station 183+10 to 186+20 and all other associated roadway items as shown in the plans within these limits. Haul and stockpile excess material for use by others for the golf course as shown on the plans. Grade mounds along the golf course as shown in the plans.
- University Avenue (USH 14): Construct the USH 14 right turn lanes as shown in the plans.
- Timber Wolf Trail: Construct the Timber Wolf Trail approach to Pleasant View Road and all associated roadway items as shown in the plans.
- Blackhawk Road: Initially construct the proposed concrete sidewalk on the left side of Blackhawk Road including the temporary connection to Pleasant View Road prior to removal of the existing sidewalk on the right side. Construct temporary pavement widening along the right side of Blackhawk Road.
- Greenway Boulevard: Construct the Greenway Boulevard approach to Pleasant View Road and all associated roadway items as shown in the plans.
- Quarry Road: No work. Maintain existing pavement.

Pedestrians:

- Close sidewalk along the south and north sides of Timber Wolf Trail.
- Complete the proposed sidewalk on the north side of Blackhawk Road prior to removal of the existing sidewalk on the south side of Blackhawk Road. Construct temporary sidewalk connection to Pleasant View Road on the north side of Blackhawk Road as shown in the plans. Close the sidewalk on the south side of Blackhawk Road prior to removal of the existing sidewalk as shown in the plans.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

Stage 2A:

Traffic:

- Pleasant View Road: Close to through traffic and detour as shown in the plans. Maintain local traffic on a combination of existing lanes and temporary widening as shown in the plans.
- University Avenue (USH 14): Extend and maintain one travel lane eastbound using the inside travel lane as shown in the plans. Close the westbound outside lane using a temporary single-lane closure and by closing the outside lane as shown in the plans. Maintain a minimum 12-foot travel lane width.
- Timber Wolf Trail: Close at Pleasant View Road and detour as shown in the plans.
- Blackhawk Road: No closures and maintain full access for the section east of Pleasant View Road. Close and detour westbound traffic as shown in the plans for the section west of Pleasant View Road. Maintain eastbound traffic for the section west of Pleasant View Road as shown in the plans.
- Greenway Boulevard: Close to through traffic and detour as shown in the plans.
- Quarry Road: No closures. Maintain full access.

Construction:

- Pleasant View Road: Continue constructing southbound from Station 108+32 to 129+50, northbound from Station 129+25 to 156+00, northbound and southbound from Station 156+00 to 166+00, southbound from Station 166+00 to 182+06, and southbound from Station 183+10 to 186+20 and all other associated roadway items as shown in the plans within these limits.

- University Avenue (USH 14): Continue constructing the USH 14 right turn lanes as shown in the plans.
- Timber Wolf Trail: Continue constructing the Timber Wolf Trail approach to Pleasant View Road and all associated roadway items as shown in the plans.
- Blackhawk Road: Construct the north half of Blackhawk Road and all associated roadway items as shown in the plans for the section west of Pleasant View Road.
- Greenway Boulevard: Continue constructing the Greenway Boulevard approach to Pleasant View Road and all associated roadway items as shown in the plans.
- Quarry Road: No work. Maintain existing pavement.

Pedestrians:

- Close sidewalk along the south and north sides of Timber Wolf Trail.
- Maintain pedestrian movements on the north side of Blackhawk Road including the connection to Pleasant View Road. Continue the closure of the sidewalk on the south side of Blackhawk Road.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

Stage 2B:

Traffic:

- Pleasant View Road: Close to through traffic and detour as shown in the plans. Maintain local traffic on a combination of existing lanes and temporary widening as shown in the plans.
- University Avenue (USH 14): Extend and maintain one travel lane eastbound using the inside travel lane as shown in the plans. Close the westbound outside lane using a temporary single-lane closure and by closing the outside lane as shown in the plans. Maintain a minimum 12-foot travel lane width.
- Timber Wolf Trail: Close at Pleasant View Road and detour as shown in the plans.
- Blackhawk Road: No closures and maintain full access for the section east of Pleasant View Road. Close and detour westbound traffic as shown in the plans for the section west of Pleasant View Road. Maintain eastbound traffic for the section west of Pleasant View Road as shown in the plans.
- Greenway Boulevard: Close to through traffic and detour as shown in the plans.
- Quarry Road: No closures. Maintain full access.

Construction:

- Pleasant View Road: Continue constructing southbound from Station 108+32 to 129+50, northbound from Station 129+25 to 156+00, northbound and southbound from Station 156+00 to 166+00, southbound from Station 166+00 to 182+06, and southbound from Station 183+10 to 186+20 and all other associated roadway items as shown in the plans within these limits.
- University Avenue (USH 14): Continue constructing the USH 14 right turn lanes as shown in the plans.
- Timber Wolf Trail: Continue constructing the Timber Wolf Trail approach to Pleasant View Road and all associated roadway items as shown in the plans.
- Blackhawk Road: Construct the south half of Blackhawk Road and all associated roadway items as shown in the plans for the section west of Pleasant View Road.
- Greenway Boulevard: Continue constructing the Greenway Boulevard approach to Pleasant View Road and all associated roadway items as shown in the plans.
- Quarry Road: No work. Maintain existing pavement.

Pedestrians:

- Close sidewalk along the south and north sides of Timber Wolf Trail.
- Maintain pedestrian movements on the north side of Blackhawk Road including the connection to Pleasant View Road until the proposed sidewalk on the south side of Blackhawk Road is complete and open to pedestrians. Relocate the temporary pedestrian crossing to the south side of the intersection when opening the proposed sidewalk on the south side of Blackhawk Road. Construct the proposed sidewalk on the north side of Blackhawk Road after pedestrian traffic is switched to the new sidewalk on the south side of Blackhawk Road.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

Stage 3:

Traffic:

- Pleasant View Road: Close to through traffic and detour as shown in the plans. Maintain local traffic on a combination of existing lanes, temporary widening, and newly constructed southbound lanes as shown in the plans.
- University Avenue (USH 14): Maintain two eastbound travel lanes at all times except as permitted during allowable lane closure hours as described in the Prosecution and Progress article. When the eastbound outside lane is open to traffic, place material to provide a maximum of 3:1 slope adjacent to the open travel lane. Close the outside eastbound travel lane during allowable lane closure hours as shown in the plans. Open to traffic the newly constructed eastbound right turn lane as shown in the plans. Maintain two travel lanes westbound and open to traffic the newly constructed westbound right turn lane as shown in the plans.
- Timber Wolf Trail: No closures. Maintain full access.
- Blackhawk Road: No closures and maintain full access for the section west of Pleasant View Road on a combination of newly constructed pavement and temporary pavement as shown in the plans. Close to through traffic and detour as shown in the plans for the section east of Pleasant View Road.
- Greenway Boulevard: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans.
- Quarry Road: No closures. Maintain full access along the north side of Quarry Road on existing pavement as shown in the plans.

Construction:

- Pleasant View Road: Construct northbound from Station 108+32 to 129+25 and northbound from Station 166+00 to 182+06 and all other associated roadway items as shown in the plans within these limits.
- University Avenue (USH 14): No work on USH 14 except for Pleasant View Road approach in the southeast quadrant of the intersection. Maintain existing pavement and newly constructed right turn lanes.
- Timber Wolf Trail: No work. Maintain existing and newly constructed pavement.
- Blackhawk Road: Construct the section of Blackhawk Road east of Pleasant View Road and all associated roadway items as shown in the plans.
- Greenway Boulevard: No work. Maintain temporary and newly constructed pavement.
- Quarry Road: Construct the south half of Quarry Road and all associated roadway items as shown in the plans.

Pedestrians:

- Close the crosswalk from the south side of Timber Wolf Trail to the east side of Pleasant View Road. Provide temporary signing for pedestrians to cross Pleasant View Road at Old Sauk Road as shown in the plans.

- Close sidewalks on both sides of Blackhawk Road for the section east of Pleasant View Road as shown in the plans.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

Stage 3A:

Traffic:

- Pleasant View Road: Close to through traffic and detour as shown in the plans. Maintain local traffic on a combination of existing lanes, temporary widening, and newly constructed southbound lanes as shown in the plans.
- University Avenue (USH 14): Maintain two eastbound travel lanes at all times except as permitted during allowable lane closure hours as described in the Prosecution and Progress article. When the eastbound outside lane is open to traffic, place material to provide a maximum of 3:1 slope adjacent to the open travel lane. Close the outside eastbound travel lane during allowable lane closure hours as shown in the plans. Open to traffic the newly constructed eastbound right turn lane as shown in the plans. Maintain two travel lanes westbound and open to traffic the newly constructed westbound right turn lane as shown in the plans.
- Timber Wolf Trail: No closures. Maintain full access.
- Blackhawk Road: No closures and maintain full access for the section west of Pleasant View Road on a combination of newly constructed pavement and temporary pavement as shown in the plans. Close to through traffic and detour as shown in the plans for the section east of Pleasant View Road.
- Greenway Boulevard: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans.
- Quarry Road: No closures. Maintain full access with the eastbound lane on the newly constructed south side pavement and the westbound lane continuing along the north side of Quarry Road on existing pavement as shown in the plans.

Construction:

- Pleasant View Road: Continue constructing northbound from Station 108+32 to 129+25 and northbound from Station 166+00 to 182+06 and all other associated roadway items as shown in the plans within these limits.
- University Avenue (USH 14): No work on USH 14 except for Pleasant View Road approach in the southeast quadrant of the intersection. Maintain existing pavement and newly constructed right turn lanes.
- Timber Wolf Trail: No work. Maintain existing and newly constructed pavement.
- Blackhawk Road: Continue constructing the section of Blackhawk Road east of Pleasant View Road and all associated roadway items as shown in the plans.
- Greenway Boulevard: No work. Maintain temporary and newly constructed pavement.
- Quarry Road: Construct the center section of Quarry Road and all associated roadway items as shown in the plans.

Pedestrians:

- Close the crosswalk from the south side of Timber Wolf Trail to the east side of Pleasant View Road. Provide temporary signing for pedestrians to cross Pleasant View Road at Old Sauk Road as shown in the plans.
- Close sidewalks on both sides of Blackhawk Road for the section east of Pleasant View Road as shown in the plans.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

Stage 3B:

Traffic:

- Pleasant View Road: Close to through traffic and detour as shown in the plans. Maintain local traffic on a combination of existing lanes, temporary widening, and newly constructed southbound lanes as shown in the plans.
- University Avenue (USH 14): Maintain two eastbound travel lanes at all times except as permitted during allowable lane closure hours as described in the Prosecution and Progress article. When the eastbound outside lane is open to traffic, place material to provide a maximum of 3:1 slope adjacent to the open travel lane. Close the outside eastbound travel lane during allowable lane closure hours as shown in the plans. Open to traffic the newly constructed eastbound right turn lane as shown in the plans. Maintain two travel lanes westbound and open to traffic the newly constructed westbound right turn lane as shown in the plans.
- Timber Wolf Trail: No closures. Maintain full access.
- Blackhawk Road: No closures and maintain full access for the section west of Pleasant View Road on a combination of newly constructed pavement and temporary pavement as shown in the plans. Close to through traffic and detour as shown in the plans for the section east of Pleasant View Road.
- Greenway Boulevard: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans.
- Quarry Road: No closures. Maintain full access with the eastbound and westbound lanes on the newly constructed south and center section pavement as shown in the plans.

Construction:

- Pleasant View Road: Continue constructing northbound from Station 108+32 to 129+25 and northbound from Station 166+00 to 182+06 and all other associated roadway items as shown in the plans within these limits.
- University Avenue (USH 14): No work on USH 14 except for Pleasant View Road approach in the southeast quadrant of the intersection. Maintain existing pavement and newly constructed right turn lanes.
- Timber Wolf Trail: No work. Maintain existing and newly constructed pavement.
- Blackhawk Road: Continue constructing the section of Blackhawk Road east of Pleasant View Road and all associated roadway items as shown in the plans.
- Greenway Boulevard: No work. Maintain temporary and newly constructed pavement.
- Quarry Road: Construct the north side of Quarry Road and all associated roadway items as shown in the plans.

Pedestrians:

- Close the crosswalk from the south side of Timber Wolf Trail to the east side of Pleasant View Road. Provide temporary signing for pedestrians to cross Pleasant View Road at Old Sauk Road as shown in the plans.
- Close sidewalks on both sides of Blackhawk Road for the section east of Pleasant View Road as shown in the plans.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

Stage 3C:

Traffic:

- Pleasant View Road: Open to through traffic on a combination of newly constructed northbound pavement and temporary pavement as shown in the plans.
- University Avenue (USH 14): No closures. Maintain full access.
- Timber Wolf Trail: No closures. Maintain full access.

- Blackhawk Road: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans for Stage 4.
- Greenway Boulevard: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans.
- Quarry Road: No closures. Maintain full access on newly constructed pavement with intersection control provided by the newly constructed roundabout.

Construction:

- Pleasant View Road: Construct the Quarry Road roundabout central island and all other associated roadway items as shown in the plans within these limits.
- University Avenue (USH 14): No work. Maintain existing and newly constructed pavement.
- Timber Wolf Trail: No work. Maintain existing and newly constructed pavement.
- Blackhawk Road: No work. Maintain temporary and newly constructed pavement.
- Greenway Boulevard: No work. Maintain temporary and newly constructed pavement.
- Quarry Road: No work. Maintain newly constructed pavement.

Pedestrians:

- Close the crosswalk from the south side of Timber Wolf Trail to the east side of Pleasant View Road. Provide temporary signing for pedestrians to cross Pleasant View Road at Old Sauk Road as shown in the plans.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

2023/2024 Winter Work Suspension:

Traffic:

- Pleasant View Road: No closures. Maintain full access on a combination of newly constructed northbound pavement and temporary pavement as shown in the plans for Stage 4.
- University Avenue (USH 14): No closures. Maintain full access.
- Timber Wolf Trail: No closures. Maintain full access.
- Blackhawk Road: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans for Stage 4.
- Greenway Boulevard: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans for Stage 4.
- Quarry Road: No closures. Maintain full access on newly constructed pavement with intersection control provided by the newly constructed roundabout.

Pedestrians:

- Maintain full access.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans for Stage 4.

Stage 4:

Traffic:

- Pleasant View Road: Open to through traffic on a combination of newly constructed northbound pavement and temporary pavement as shown in the plans.
- University Avenue (USH 14): Extend and maintain one travel lane eastbound using the outside travel lane as shown in the plans. Close the westbound inside lane using a temporary single-lane closure and by closing the inside lane as shown in the plans.

- Timber Wolf Trail: Close access to westbound at Pleasant View Road and detour as shown in the plans. Limit eastbound movements from Timber Wolf Trail to a right turn only as shown in the plans.
- Blackhawk Road: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans.
- Greenway Boulevard: No closures. Maintain full access on a combination of newly constructed pavement and temporary pavement as shown in the plans.
- Quarry Road: No closures. Maintain full access on newly constructed pavement with intersection control provided by the newly constructed roundabout.

Construction:

- Pleasant View Road: Construct the median from Station 108+32 to 110+38, the splitter island in the south approach to Blackhawk Road, southbound from Station 129+50 to 156+00, and all other associated roadway items as shown in the plans within these limits.
- University Avenue (USH 14): Construct the USH 14 median and left turn lanes as shown in the plans.
- Timber Wolf Trail: No work. Maintain existing and newly constructed pavement.
- Blackhawk Road: No work. Maintain temporary and newly constructed pavement.
- Greenway Boulevard: No work. Maintain temporary and newly constructed pavement.
- Quarry Road: No work. Maintain newly constructed pavement.

Pedestrians:

- Close the crosswalk from the south side of Timber Wolf Trail to the east side of Pleasant View Road. Provide temporary signing for pedestrians to cross Pleasant View Road at Old Sauk Road as shown in the plans.

Greenway Center Trail:

- Close the trail at Pleasant View Road as shown in the plans.

Stage 5:

Traffic:

- Pleasant View Road: Open to through traffic on newly constructed pavement as shown in the plans.
- University Avenue (USH 14): Open to through traffic on a combination of existing and newly constructed pavement as shown in the plans.
- Timber Wolf Trail: Close access from northbound Pleasant View Road to westbound Timber Wolf Trail and detour as shown in the plans. Maintain full access to Timber Wolf Trail from southbound Pleasant View Road as shown in the plans.
- Blackhawk Road: No closures. Maintain full access on newly constructed pavement with intersection control provided by the newly constructed roundabout.
- Greenway Boulevard: No closures. Maintain full access on newly constructed pavement with intersection control provided by the newly constructed roundabout.
- Quarry Road: No closures. Maintain full access on newly constructed pavement with intersection control provided by the newly constructed roundabout.

Construction:

- Pleasant View Road: Remove the temporary pavement and construct the median from Station 106+31.5 to 108+32, construct the northbound inside lane from Station 108+32 to 109+34, the Blackhawk Road roundabout central island, and the Greenway Boulevard roundabout central island and all other associated roadway items as shown in the plans within these limits.

- University Avenue (USH 14): No work. Maintain existing and newly constructed pavement.
- Timber Wolf Trail: No work. Maintain existing and newly constructed pavement.
- Blackhawk Road: Remove the temporary pavement and construct the splitter islands on both the east and west approaches.
- Greenway Boulevard: Remove the temporary pavement and construct the splitter island on the east approach.
- Quarry Road: No work. Maintain newly constructed pavement.

Pedestrians:

- Close the crosswalk from the south side of Timber Wolf Trail to the east side of Pleasant View Road. Provide temporary signing for pedestrians to cross Pleasant View Road at Old Sauk Road as shown in the plans.

Greenway Center Trail:

- Open the trail at Pleasant View Road using the newly constructed bridge B-13-892 as shown in the plans.

Winter Suspension

The following requirements are for traffic control over the winter periods.

Remove all drums and other temporary traffic control devices from the roadway clear zone unless otherwise directed by the engineer. For traffic control devices that are required to remain over a winter suspension, clean all traffic control devices of dirt and debris including, but not limited to, signs, drum, message boards and barrier wall reflectors once every month, after each occurrence when county or city maintenance crews have completed winter plowing operations, or as directed by the engineer.

During winter months, store equipment and materials a minimum of 20 feet from the edge of the traveled way to prevent damage to equipment from snow plowing operations. Do not store equipment or materials within the work zone that may interfere with sight distances along any roadway.

Dane County and local municipalities will perform snow removal operations for roads that are open to through traffic. Coordinate any temporary moving of traffic control devices to allow for winter plowing in and around the devices as requested by the maintaining authority or as directed by the engineer. Re-install or adjust any traffic control devices that may be damaged, removed, or shifted as part of the winter maintenance operations. This work is included in the cost of Traffic Control. The local maintaining authority will not provide snow plowing operations in areas outside of the active travel lanes.

6. Holiday and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying Pleasant View Road or USH 14 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:

2022

- From noon Wednesday, November 23 to 6:00 AM Monday, November 28 for Thanksgiving

2023

- From noon Friday, May 26 to 6:00 AM Tuesday, May 30 for Memorial Day;
- From noon Monday, July 3 to 6:00 AM Wednesday, July 5 for Independence Day;
- From noon Friday, September 1 to 6:00 AM Tuesday, September 5 for Labor Day.

2024

- From noon Friday, May 24 to 6:00 AM Tuesday, May 28 for Memorial Day;
- From noon Wednesday, July 3 to 6:00 AM Monday, July 8 for Independence Day.

stp-107-005 (20210113)

7. Utilities.

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 10 to 12 working days in advance of when the prior work will be completed, and the site will be available to the utility owner. Follow-up with a confirmation notice to the engineer and the utility owner 3 to 5 working days before the site will be ready for the utility owner to begin its work.

Additional detailed information regarding the location of the relocated utility facilities is available on the permits issued to the utility companies.

Underground and overhead utility facilities are located within the project limits. Utility adjustments are required for this construction project as noted below. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

Prospective bidders are cautioned that the arrangements set forth in this article represent the utility companies' best estimate of their plans to relocate and/or adjust conflicting facilities.

Utility companies will be performing utility work and adjustments within the limits and during the life of the project. Cooperate and coordinate construction activities with these utility companies.

There may be discontinued utility facilities within the project limits. If a conflict with a discontinued utility facility is encountered, contact the appropriate utility owner/representative to coordinate construction activities and proper removal and disposal of said facility as necessary.

Project 5310-02-75 (Trans 220)

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

stp-107-065 (20080501)

Known utilities in the project area are as follows and station locations are approximate locations:

ATC Management, Inc. (ATC)(Electric)

General ATC Utility Description:

ATC overhead 69 kV electric transmission line crosses Pleasant View Road at Station 181+00. ATC overhead 345 kV electric transmission line crosses Pleasant View Road at Station 183+50.

ATC Plans to Address Identified Conflicts:

No conflicts are anticipated. Maintain a safe working clearance to the 69 kV conductors at all times based on the latest OSHA requirements. Do not stockpile materials under ATC transmission lines.

Madison Gas & Electric Company (Electric)

Madison Gas & Electric (Electric) (MG&E) Utility Description:

Existing overhead electric is generally located within the proposed southbound pavement from Station 178+00 to Station 181+65. Underground electric services extend east and west from the existing pole at Station 178+02. Underground electric services extend east from the existing pole at Station 179+87.

Existing underground electric extends from the existing pole at Station 181+65 and angles northwesterly across USH 14 and then extends westerly along the north side of USH 14 outside of the project limits. An existing underground electric line extending along the north side of USH 14 crosses Pleasant View Road at Station 183+64.

MG&E Electric Relocation Plans to Address Identified Conflicts:

MG&E Electric will install new overhead pole line approximately 25 feet west of the existing and located between the new curb and multi-use path. MG&E Electric will relocate the existing transformer at approximately Station 178+00 RT to the east onto private property and extend two 4-inch underground PVC conduit from the relocated transformer to the relocated pole at approximately Station 178+00 LT. This work is planned to begin April 15, 2023 and take 60 working days to complete. MG&E Electric needs the clearing, grubbing, initial grading, and removing building completed prior to beginning their work.

MG&E Electric will install new underground electric crossing under the proposed storm sewer from structure PV509 to PV5097 approximately 100 feet west of structure PV5097. This work will be completed prior to September 2022.

Madison Gas & Electric Company (Gas)

Madison Gas & Electric (Gas) (MG&E) Utility Description:

Existing gas main is generally located within the proposed northbound roadway from Station 178+00 to Station 182+50. Existing gas main is generally located under existing US 14 pavement and then crosses to the west side and extends north underneath proposed concrete sidewalk from Station 182+50 to Station 185+64. Existing gas main is generally located along the south side of US 14 in the area of the existing shoulder from Station 100+00U to Station 107+52U.

MG&E Gas Relocation Plans to Address Identified Conflicts:

MG&E Gas will install new 12-inch ST-175 PSI and 6-inch PE-60PSI gas main from Station 178+00 to beyond the construction limits at Station 186+20. The new gas main will be installed along the west right-of-way line and cross USH 14 at approximately Station 99+30U. MG&E Gas will install new 4-inch PE-60PSI gas main along the east right-of-way from Station 178+00 to Station 182+00. This work is planned to be completed in conjunction with the grading during Stage 2 and Stage 3. The anticipated start date is May 22, 2023 and is anticipated to take 25 working days to complete.

Existing gas facilities will be discontinued in place.

Middleton Municipal Water Utility (Water)

General City of Middleton Utility Description:

The City of Middleton has water main located along the east side of Pleasant View Road adjacent to the existing right-of-way.

City of Middleton Plans to Address Identified Conflicts:

City of Middleton (Water) facilities will be adjusted according to the plans. This work will be done as part of project 5992-11-02.

Middleton Sewer Utility (Sanitary Sewer)

General City of Middleton Utility Description:

The City of Middleton has sanitary sewer generally located within the center of University Green extending east and west from the intersection with Pleasant View Road.

City of Middleton Plans to Address Identified Conflicts:

No conflicts are anticipated.

TDS Metrocom LLC (Communication)

TDS Metrocom Utility Description:

Existing overhead fiber optic cable is generally located on the west side of existing Pleasant View Road and generally within the proposed southbound roadway from Station 178+00 to Station 179+87. Existing poles are located at Station 178+02 LT and Station 179+87 LT. Existing underground fiber optic cable is generally located on the west side of existing Pleasant View Road from Station 179+87 to Station 185+74, crosses USH 14, and then continues north along the west side of Pleasant View Road to beyond the project limits.

Existing underground fiber optic cable is generally located along the north side of US 14 and just within the existing right-of-way from Station 100+00U to Station 107+52U.

TDS Metrocom Relocation Plans to Address Identified Conflicts:

TDS Metrocom will install new underground fiber optic facilities along the west right-of-way within a joint MG&E Gas trench from Station 178+00 to beyond the construction limits at Station 186+20. The new underground fiber optic line within the joint MG&E Gas trench will cross USH 14 at approximately Station 99+30U. TDS Metrocom will have a fiber optic line exit the joint MG&E Gas trench at approximately Station 183+50 to a new handhole and tie into existing TDS Metrocom underground fiber optic line located along the north side of USH 14. This work is planned to be completed in conjunction with the grading during Stage 2 and Stage 3. The anticipated start date is May 30, 2023 and is anticipated to take 25 working days to complete.

Existing underground fiber optic facilities along Pleasant View Road will be discontinued in place.

TDS Telecom (Communication)

TDS Telecommunications Utility Description:

Existing overhead telephone cable extends northerly along the east side of Pleasant View Road from Station 170+93 to Station 178+02. The existing pole at Station 178+02 RT is located within the proposed roadway.

Existing underground fiber optic cable extends northerly along the east side of Pleasant View Road from the existing pole at Station 178+02 to an existing pedestal at Station 179+51 RT. Existing underground telephone cable then extends northerly along the east side of Pleasant View Road from the existing pedestal at Station 179+51 RT to Station 180+92 RT. The existing underground telephone cable then extends westerly crossing under Pleasant View Road to Station 181+00 LT and then continues northerly along the west side of Pleasant View Road to Station 181+85 LT. The existing underground telephone cable then extends westerly along the south side of USH 14. An underground telephone cable service extends westerly under Pleasant View Road from the existing pedestal at Station 179+51 RT. An existing underground fiber optic cable and underground telephone cable extend easterly from the existing pedestal at Station 179+51 RT.

TDS Telecommunications Relocation Plans to Address Identified Conflicts:

TDS Telecommunications will install new underground copper telephone facilities along the west right-of-way within a joint MG&E Gas trench from Station 178+00 to beyond the construction limits at Station 186+20. The new underground copper telephone facilities within the joint MG&E Gas trench will cross USH 14 at approximately Station 99+30U. TDS Telecommunications will have a copper telephone line exit the joint MG&E Gas trench at approximately Station 181+85 to a new handhole and tie into existing TDS Telecommunications underground telephone facilities that extend west along the south right-of-way line of USH 14. TDS Telecommunications will have a copper telephone line exit the joint MG&E Gas trench at approximately Station 183+50 to a new handhole and tie into existing TDS Telecommunications facilities located along the north side of USH 14. This work is planned to be completed in conjunction with the grading during Stage 2 and Stage 3. The anticipated start date is May 30, 2023 and is anticipated to take 25 working days to complete.

Existing underground copper telephone facilities along Pleasant View Road will be discontinued in place.

Project 5992-11-01

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

Known utilities in the project area are as follows and station locations are approximate locations:

Alliant Energy (Electric)

General Alliant Energy (Electric) Utility Description:

Existing underground electric facility is generally located on the east side just outside of the existing right-of-way from Station 108+32 to Station 129+50. Three concurrent underground electric lines cross Pleasant View Road at Station 108+36 and extend to outside of the right-of-way at approximately Station 108+65. An underground electric line crosses Pleasant View Road at Station 110+94 from a transformer on the right side to a transformer on the left side.

Existing underground electric is generally located on the east side just outside of the existing right-of-way from Station 129+50 to Station 139+52. Three concurrent underground electric lines extend to an existing ground mounted transformer at Station 131+18 RT. A single underground electric line extends north from this transformer along the existing right-of-way line to a ground mounted transformer at Station 139+52 RT.

Existing underground electric is generally located on the east side just outside of the existing right-of-way from Station 139+52 to Station 153+43. Two underground electric lines extend north from the existing ground mounted transformer at Station 139+52 RT to the north side of Greenway Boulevard and then turn and extend easterly along the north side of Greenway Boulevard. A single underground electric line extends from the existing ground mounted transformer at Station 139+52 RT to an existing ground mounted transformer at Station 153+43 RT that is the northern limits of Alliant Energy facilities

Alliant Energy Plans to Address Identified Conflicts:

Alliant Energy will discontinue in place existing underground from Station 111+00 to approximately Station 153+40 and from Station 10+71B to Station 16+50B.

Alliant Energy will install new underground electric within a 6-inch conduit along the east side of Pleasant View Road within their existing easement at a depth to maintain 4 feet if cover from proposed grading from Station 108+32 to Station 127+25. The existing crossing at Station 110+94 will be discontinued in place and the transformer removed. Electric service to the served properties will come from existing distribution along the rear lot lines of the properties. Existing switchgear at Station 131+18 RT will be relocated to Station 127+25 RT. A new 6-inch conduit crossing Pleasant View Road at Station 127+25 will be installed crossing from the east side to the west side where the conduit will extend northerly and then along the south side of Blackhawk Road 1 foot off the right-of-way to beyond the project limits.

Alliant Energy will install three runs of new underground electric within two 6-inch and one 5-inch conduits from Station 127+25 along the east side of Pleasant View Road and the south side of Blackhawk Road located approximately 1 foot off the right-of-way to a crossing of Blackhawk Road at Station 18+10B. Alliant Energy will install two runs of new underground electric within a 6-inch and 5-inch conduit along the north side of Blackhawk Road located approximately 1 foot off the right-of-way and then north along the east side of Pleasant View Road located approximately 1 foot off the right-of-way or within existing utility easement to approximately Station 134+60. At Station 134+65 the 5-inch conduit will extend east along the property line to beyond the project limits. Alliant Energy will install new underground electric within a 6-inch conduit along the east side of Pleasant View Road within their existing easement to existing switchgear just south of Greenway Boulevard at Station 139+50 RT.

Alliant Energy will install three runs of new underground electric within one 6-inch and two 5-inch conduits from existing switchgear at Station 139+50 RT along the east side of Pleasant View Road and the south side of Greenway Boulevard to a new crossing of Greenway Boulevard at approximately Station 51+10G. Two of the runs will splice into existing underground electric on the north side of Greenway Boulevard. The third run of new underground electric within one 5-inch conduit will be installed along the north side of Greenway Boulevard and then along the east side of Pleasant View Road located approximately 1 foot off the right-of-way or within existing utility easement to approximately Station 146+90. The new underground electric conduit will then extend northeasterly to beyond the project limits to an existing transformer at approximately Station 148+30 RT.

Alliant Energy plans to complete the above installations and discontinuance of existing facilities prior to construction with an anticipated start date of June 1, 2022. Alliant Energy estimate this work will require 60 working days to complete.

In order to avoid having new underground electric facilities at a deeper depth and to remove the need to install storm sewer around new or existing underground electric facilities, Alliant Energy will install new underground electric at standard depths from Station 114+00 to Station 117+50 and from Station 144+50 to Station 147+00 during construction after the proposed storm sewer pipes and fill has been placed. Alliant Energy anticipates this work will take 5 working days to complete. Alliant Energy will discontinue in place the existing underground electric between Station 114+00 to Station 117+50 prior to installation of the proposed storm sewer. Notify Alliant Energy at least 3 working days prior to installation of the proposed storm sewer to allow for discontinuing the existing underground electric. The existing underground electric between Station 1144+50 and Station 147+00 has been previously discontinued in place.

ATC Management, Inc. (ATC)(Electric)

General ATC Utility Description:

ATC overhead dual 69 kV and 138 kV electric transmission line with 17 existing poles parallels Pleasant View Road along the west right-of-way line from the beginning of the project to Station 156+00 where the overhead line extends westerly to beyond the project limits.

ATC Plans to Address Identified Conflicts:

ATC will replace the existing 17 existing pole structures with 15 new steel structures generally along the west right-of-way line of Pleasant View Road.

ATC plans to replace the existing pole structures and place the new steel structures prior to construction with an anticipated start date of August 15, 2022 to install new foundations. ATC anticipates receiving conductor wire around February 1, 2023 and anticipates requiring approximately 60 calendar days to complete installation of the conductors and removal of the existing pole line. Coordinate Stage 1 construction operations within 10 feet of ATC facilities with ATC.

Maintain a safe working clearance to the 69 kV conductors at all times based on the latest OSHA requirements. Do not stockpile materials under ATC transmission lines.

Charter Communications (Communications)

General Charter Communications Utility Description:

Existing underground television cable from the west enters the Pleasant View Road right-of-way at Station 125+97 and then extends northerly generally located along the west side of Pleasant View Road from Station 125+97 to Station 129+47. The underground television cable then crosses Pleasant View Road from the west side to the east just north of Blackhawk Road ending at a pedestal.

Existing underground fiber optic cable extends from the south side of Greenway Boulevard at Station 139+90 and crosses Pleasant View Road to the west side. The existing underground fiber optic cable then extends northerly along the west side of Pleasant View Road from Station 139+90 to Station 156+50 ending at the existing cellular tower property. Existing underground television cable is generally located on the east side of existing Pleasant View Road from Station 139+60 RT to Station 141+36 RT where the cable turns and extends easterly along the north side of Greenway Boulevard. Existing underground fiber optic cable is generally located along the south side of Greenway Boulevard in the terrace area from Station 50+00G to Station 52+31G adjacent to the existing sidewalk. Existing underground television cable is generally located along the north side of Greenway Boulevard adjacent to and outside the existing right-of-way from Station 50+00G and extends to beyond the project limits.

Charter Communications Plans to Address Identified Conflicts:

Charter Communications will discontinue in place their existing facilities located from Station 125+97 to Station 129+47 including the crossing to the existing pedestal on the east side of Pleasant View Road just north of Blackhawk Road.

Charter Communications will install two 2-inch ducts from a new vault at approximately Station 140+31SB, 52’ LT extending easterly crossing under Pleasant View Road and then along the south right-of-way of Greenway Boulevard to a new vault at approximately Station 51+27G RT. Charter Communications will discontinue in place their existing facilities located along Greenway Boulevard. This work is planned to be completed prior to or at the start of Stage 1 with an anticipated start date of March 15, 2023 and is anticipated to take approximately 20 working days to complete.

Charter Communications will install two 2-inch ducts from a new vault at approximately Station 140+31SB, 52’ LT extending northerly along the west right-of-way within a joint MG&E Gas trench to approximately Station 152+00, 65’ LT to a new vault. Charter Communications will then install a new temporary pole line from Station 152+00 LT to the existing cell tower with poles located at approximately Stations 152+06.5, 65’ LT; 153+72, 84’ LT; and 155+43.5, 103’ LT to be located beyond the grading limits. This work is planned to be completed prior to or at the start of Stage 1 with an anticipated start date of March 15, 2023 and is anticipated to take approximately 20 working days to complete. Charter Communications will discontinue in place their existing facilities after completion of the temporary pole line connection to the cell tower site.

Charter Communications will install two 2-inch ducts from a new vault at approximately Station 152+00, 65’ LT within a joint MG&E Gas trench that crosses Pleasant View Road at approximately Station 152+20. The joint trench then extends northerly under the proposed sidewalk on the east side to a new vault at Station 160+12.5, 46’ RT. The joint trench then crosses Pleasant View Road to a new vault at Station 160+20, 72’ LT. This work is planned to be completed following completion of Stage 2 grading with an anticipated start date of June 12, 2023 and is anticipated to take approximately 25 working days to complete.

From the new vault at Station 160+12.5, 46’ RT Charter Communications will install one 3-inch duct extending south along the west right-of-way of Pleasant View Road to a new vault at Station 155+98, 78’ LT and then extend westerly to the existing cell tower site. This work is planned to be completed following completion of Stage 2 grading with an anticipated start date of June 12, 2023 and is anticipated to take approximately 20 working days to complete.

City of Madison (Sanitary Sewer)

General City of Madison Utility Description:

The City of Madison has existing sanitary sewer generally located on the west side of Pleasant View Road outside of the existing right-of-way from Station 116+20 to Station 118+24 with existing manholes at Station 116+20, Station 116+93, and Station118+24. An existing sanitary sewer extends from the existing manhole at Station 116+93 LT crossing under Pleasant View Road to an existing manhole at Station 116+68 RT.

Existing sanitary sewer is generally located within the center of Blackhawk Road from Station 10+42B near the begin construction limits at Station 10+71B to beyond the end construction limits at Station 21+14B.

City of Madison Plans to Address Identified Conflicts:

City of Madison (Sanitary Sewer) facilities will be adjusted according to the plans. This work will be done as part of project 5992-11-02.

City of Madison (Traffic Signals and Street Lighting)

General City of Madison Utility Description:

Existing 3-inch conduit is located within the Pleasant View Road median from Station 106+31 to Station 109+00 and extends to an existing handhole at Station 108+37. The 3-inch conduit then extends westerly under Pleasant View Road to an existing handhole on the south side of Timber Wolf Trail that is beyond the project limits. Additionally, street lighting cable in duct is also located in the Pleasant View Road median. The cable in duct extends from an existing streetlight pole at Station 106+42 to an existing streetlight pole at Station 108+30. The cable in duct then extends westerly under Pleasant View Road to an existing streetlight pole on the south side of Timber Wolf Trail that is beyond the project limits.

Existing interim traffic signals are located at the intersection of Pleasant View Road and Blackhawk Road. Existing streetlighting cable in duct extends from the existing traffic signal base at Station 16+58B LT easterly within the existing terrace area to existing streetlight poles at Station 18+20B LT and Station 20+89B LT and then extends to beyond the project limits.

City of Madison Plans to Address Identified Conflicts:

City of Madison (Traffic Signals and Street Lighting) facilities will be adjusted according to the plans. This work will be done as part of project 5992-11-01.

Madison Gas & Electric Company (Electric)

Madison Gas & Electric (Electric) (MG&E) Utility Description:

Existing underground electric facility is generally located on the west side of Pleasant View Road from Station 120+50 to Station 128+50 below the proposed multi-use path and then transitions to being below the proposed southbound roadway. Existing underground electric is then generally located on the west side of Pleasant View Road from Station 128+50 to Station 131+50 varying between the back of the proposed multi-use path and then crossing under the multi-use path to an existing pole at Station 131+50.

Existing overhead electric is generally located within the proposed southbound terrace of Pleasant View Road from Station 131+50 to Station 152+53 and is concurrent with ATC facilities. Existing overhead electric then angles across Pleasant View Road from the existing pole at Station 153+53 to an existing pole at Station 154+76 and then continues north generally located within the proposed median to an existing pole at Station 155+87. The existing overhead electric line then extends westerly to an existing ATC steel pole and then further west to outside of the project limits. An overhead electric line also extends easterly to an existing pole outside of the project limits.

Existing overhead electric is generally located along the west side of Pleasant View Road from Station 161+19 to Station 178+00 starting beyond the proposed improvements and then crosses the proposed multi-use path and proposed curb and gutter and ends within the proposed southbound pavement.

Existing overhead electric line is located along the south side of Blackhawk Road within the existing terrace from the begin construction to the existing pole at Station 15+41B. Existing underground electric is located along the north side of Blackhawk Road generally under the proposed sidewalk and within the proposed terrace area from the begin construction to Station 15+45B where it turns northerly along the west side of Pleasant View Road.

An underground electric line extends easterly and along the north side of Quarry Road starting from the existing pole at Station 171+70 LT and ending at a transformer at Station 50+68Q LT. An existing underground electric line extends from the transformer and crosses Quarry Road at Station 50+37Q to the south side of Quarry Road. The existing underground electric line then extends east and west along the south side of existing Quarry Road to beyond the project limits.

MG&E Electric Relocation Plans to Address Identified Conflicts:

MG&E Electric will install new overhead pole line along the west side of Pleasant View Road from approximately Station 161+15 to Station 178+00 located between the new curb and multi-use path. Due to the significant cut and fills around the existing MG&E Electric poles on the west side of Pleasant View Road, MG&E Electric will coordinate with the contractor's detailed grading schedule once it is determined. Some grading around the existing MG&E Electric poles at Stations 163+50, 165+50, 168+00 and 170+00 will be required after grading the area where the relocated poles will be located. Pole relocations north of Station 152+50 will be completed during Stage 2 grading operations and is expected to require 60 working days to complete.

MG&E Electric will relocate an existing pad mounted elbow cabinet from approximately Station 15+50B LT to approximately 40 feet north to a location within right-of-way behind new sidewalk along the existing route of underground electric cables. This relocation will be completed prior to September 2022.

The existing MG&E Electric service to the existing traffic controller at Blackhawk Road at approximately Station 15+50B RT can be cut and discontinued in place when the service is no longer needed for the traffic signal controller.

MG&E Electric will relocate their overhead electric currently on existing ATC poles from approximately Station 131+00 to Station 155+50 LT to the relocated ATC poles. This will be completed in conjunction with ATC's relocation work in February and March 2023.

MG&E Electric will set a temporary pole at Station 155+85 LT approximately 70 feet east behind retaining wall R-13-367 to allow for the proposed rock cut. After the rock cut is completed, MG&E Electric will install four 5-inch PVC conduits at approximately Station 153+00 for future underground of the crossing in this area. The temporary pole will be placed once the clearing and grubbing is completed in this area. The new conduit crossing will be completed as time permits.

The existing MG&E Electric underground service at approximately Station 171+45 RT to a street light can be cut and discontinued in place when the service is no longer needed for the street light.

The existing MG&E Electric underground cable crossing Pleasant View Road at Station 172+20 will be extended to the relocated pole after the pole is relocated.

MG&E Electric will lower the existing underground cable in the area of proposed Pond F in coordination with the grading for the pond. This work is planned to be completed prior to or at the start of Stage 1 with an anticipated start date of March 15, 2023 and is anticipated to take approximately 5 working days to complete.

Madison Gas & Electric Company (Gas)

Madison Gas & Electric (Gas) (MG&E) Utility Description:

Existing gas main is generally located within the proposed southbound roadway of Pleasant View Road from Station 108+32 to Station 131+60. Existing gas main is then generally located within the proposed northbound roadway of Pleasant View Road from Station 131+60 to Station 153+00. Existing gas main is then generally located within the proposed southbound roadway of Pleasant View Road from Station 153+00 to Station 160+00. Existing gas main is then generally located within the proposed northbound roadway of Pleasant View Road from Station 160+00 to Station 178+00.

Existing gas main is generally located along the north side of Blackhawk Road from Station 10+71B to Station 21+14B in the area of the proposed sidewalk.

Existing gas main is generally located along the south side of Greenway Boulevard from Station 50+00G to Station 53+38G in the area of the existing terrace.

Existing gas main is generally located along the south side of Quarry Road from Station 50+00Q to Station 51+56Q in the area of the existing curb and gutter.

MG&E Gas Relocation Plans to Address Identified Conflicts:

MG&E Gas will install new 12-inch ST-175 PSI and 6-inch PE-60PSI gas main from approximately Station 108+00 to Station 178+00. It is anticipated the installation of the new gas mains will take 120 working days total with an anticipated start date of April 3, 2023. The new gas mains will be located on the west side of Pleasant View Road under the proposed multi-use path from Station 108+00 to Station 109+45. The gas mains will then cross Pleasant View Road to the east side at Station 109+45. The gas mains will then extend northerly approximately 5 feet inside the right-of-way to approximately Station 128+00. This work will be completed prior to or at the beginning of Stage 1. A gap in the gas mains will be left from approximately Station 115+75 to Station 116+75 to allow for installation of storm sewer in Stage 2. The gap will be completed following installation of the storm sewer so the gas main can be located above the proposed storm sewer.

The new gas mains will cross Blackhawk Road at approximately Station 16+90B and then extend northerly under the proposed sidewalk to approximately Station 130+00. This work will be completed during Stage 3 while Blackhawk Road is closed to traffic with an anticipated start date of September 5, 2023 and is anticipated to take approximately 10 working days to complete.

The new gas mains will cross Pleasant View Road at approximately Station 130+00 to the west side and then extend northerly located under the proposed multi-use path to Station 152+10. It is anticipated the installation of the new gas mains will take 120 working days total with an anticipated start date of April 3, 2023.

The new gas mains will then cross Pleasant View Road at approximately Station 152+20. The new gas mains then extend northerly under the proposed sidewalk on the east side to approximately Station 160+30. The new gas mains then cross Pleasant View Road at approximately Station 160+30 to the proposed sidewalk on the west side. This work is planned to be completed following completion of Stage 2 grading with an anticipated start date of June 12, 2023 and is anticipated to take approximately 25 working days to complete.

The new gas mains then extend northerly under the proposed sidewalk on the west side of Pleasant View Road to Station 175+00 and then along the west right-of-way to Station 178+00. This work is planned to be completed following completion of Stage 2 grading with an anticipated start date of June 12, 2023 and is anticipated to take approximately 50 working days to complete.

MG&E Gas will install 2-inch PE-60PSI gas main located approximately under the west edge of the proposed multi-use path approximately Station 109+45SB to Station 114+00SB to provide service to existing customers. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

MG&E Gas will install 2-inch PE-60PSI gas main crossing of Pleasant View Road at approximately Station 121+25 to provide service to existing customers. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

MG&E Gas will install 4-inch PE-60PSI gas main extending from the new 12-inch ST-175 PSI and 6-inch PE-60PSI gas main south to the proposed sidewalk for the Blackhawk Road roundabout and then under the sidewalk extending west and connecting to an existing gas main at Station 14+50B LT. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

MG&E Gas will install 4-inch PE-60PSI gas main extending from the new 12-inch ST-175 PSI and 6-inch PE-60PSI gas main on the west side of Pleasant View Road crossing Pleasant View Road at approximately Station 141+80. The 4-inch PE-60PSI gas main then extends easterly under the proposed sidewalk on the north side of Greenway Boulevard to approximately Station 51+90G. The 4-inch PE-60PSI gas main then crosses Greenway Boulevard to the existing gas main on the south side. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

MG&E Gas will install 4-inch PE-60PSI gas main extending from the new 12-inch ST-175 PSI and 6-inch PE-60PSI gas main on the west side of Pleasant View Road crossing Pleasant View Road at approximately Station 172+10. The 4-inch PE-60PSI gas main then extends easterly along the north right-of-way of Quarry Road to approximately Station 51+45Q. The 4-inch PE-60PSI gas main then crosses Quarry Road to the existing gas main on the south side. This work is planned to be completed during Stage 3 grading with an anticipated start date of August 28, 2023 and is anticipated to take approximately 5 working days to complete.

MG&E Gas will install 4-inch PE-60PSI gas main extending from the new 4-inch PE-60PSI gas main crossing Pleasant View Road at Station 172+10 northerly along the east right-of-way of Pleasant View Road to Station 178+00. This work is planned to be completed during Stage 3 grading with an anticipated start date of August 28, 2023 and is anticipated to take approximately 5 working days to complete.

MG&E Gas will install 2-inch PE-60PSI gas main extending from the new 4-inch PE-60PSI gas main along the east right-of-way of Pleasant View Road generally along the proposed storm sewer line extending to Pond F. This work is planned to be completed during Stage 3 grading with an anticipated start date of August 28, 2023 and is anticipated to take approximately 5 working days to complete.

Existing 4-inch PE-60PSI and 4-inch ST-60PSI gas facilities will be discontinued in place.

Madison Water Utility (Water)

General Madison Water Utility Description:

Existing water main is generally located on the west side of Pleasant View Road from Station 108+32 to Station 110+04 just within the existing right-of-way crossing Timber Wolf Trail and ending at an existing fire hydrant at Station 110+04. Existing water main extends westerly under Timber Wolf Trail to beyond the project limits.

Existing water main is generally located on the west side of Pleasant View Road from Station 125+75 to Station 128+18 between existing Pleasant View Road and the existing concrete sidewalk. Existing water main extends westerly at Station 125+82 to private property and outside of the project limits. The existing water main tees into an existing water main located along the south side of Blackhawk Road at Station 128+18.

Existing water main is generally located along the south side of Blackhawk Road from the begin construction limits at Station 10+71B to Station 15+31B under the existing sidewalk. The existing water main through two series of bends crosses to the north side of Blackhawk Road through the Pleasant View Road intersection. Existing water main is generally located along the north side of Blackhawk Road from Station 16+46B to beyond the end construction limits at Station 21+14B.

Madison Water Utility Plans to Address Identified Conflicts:

City of Madison (Water) facilities will be adjusted according to the plans. This work will be done as part of project 5992-11-02.

Middleton Municipal Water Utility (Water)

General City of Middleton Utility Description:

Existing water main is located along the east side of Pleasant View Road from Station 140+50 to Station 186+16 adjacent to the existing right-of-way.

Existing water main extends from beyond the project limits (Pleasant View Golf Course) and tees into an existing water main along Pleasant View Road at Station 140+87 LT. Existing water main extends easterly from the Pleasant View Road water main at Station 140+50 along Greenway Boulevard generally under the eastbound roadway to beyond the project limits.

Existing 12-inch water main is generally located within the center of Quarry Road starting from an existing water main vault at Station 171+79 RT to beyond the end construction limits at Station 51+57Q.

City of Middleton Plans to Address Identified Conflicts:

City of Middleton (Water) facilities will be adjusted according to the plans. This work will be done as part of project 5992-11-02.

Middleton Sewer Utility (Sanitary Sewer)

General City of Middleton Utility Description:

Existing sanitary sewer extends from beyond the project limits (Pleasant View Golf Course) and crosses Pleasant View Road at Station 140+80. The sanitary sewer then continues easterly generally located within the existing Greenway Boulevard median from Station 50+00G to Station 53+38G.

Existing sanitary sewer is generally located within the center of Quarry Road starting from an existing sanitary sewer manhole at Station 171+87 RT to beyond the end construction limits at Station 51+57Q.

City of Middleton Plans to Address Identified Conflicts:

City of Middleton (Sanitary Sewer) facilities will be adjusted according to the plans. This work will be done as part of project 5992-11-02.

Restech Services (Communication)

Restech Services Utility Description:

Existing underground fiber optic cable within 3-inch conduit is located within the Pleasant View Road median from Station 106+31 to Station 108+37 and extends to an existing handhole at Station 108+37. The 3-inch conduit then extends westerly under Pleasant View Road to an existing handhole on the south side of Timber Wolf Trail that is beyond the project limits.

Existing underground fiber optic cable within 3-inch conduit is located generally on the west side of Pleasant View Road from Station 108+50 to Station 128+89 approximately 7-feet within the existing right-of-way. Existing handholes are located at Station 108+98 LT, Station 111+96 LT, Station 120+03 LT, Station 120+51 LT, and Station 128+89 LT. The existing underground fiber optic cable crosses Timber Wolf Trail and Blackhawk Road.

Existing fiber optic cable within 3-inch conduit is located generally on the north side of Blackhawk Road from Station 15+28B to Station 16+31B between existing handholes at Station 15+28B LT and Station 16+31B LT.

Restech Services Plans to Address Identified Conflicts:

Restech Services will install a new handhole in the terrace area of the southwest quadrant of Pleasant View Road and Timber Wolf Trail. Restech Services will install two 1.25-inch conduits within the proposed MG&E Gas trench starting from the new handhole and extending northerly on the west side of Pleasant View Road under the proposed multi-use path from Station 108+00 to Station 109+45. The two conduits will then cross Pleasant View Road to the east side at Station 109+45 to a new handhole. The two 1.25-inch conduits will then extend northerly in the MG&E Gas trench approximately 5 feet inside the right-of-way to approximately Station 128+00. This work will be completed prior to or at the beginning of Stage 1 with an anticipated start date of April 3, 2023 and will take approximately 20 working days to complete. A gap in the conduits will be left from approximately Station 115+75 to Station 116+75 to allow for installation of storm sewer in Stage 2. The gap will be completed following installation of the storm

sewer so the conduits can be located above the proposed storm sewer. A new handhole will be installed at approximately Station 116+50 RT just inside the right-of-way.

The new two 1.25-inch conduits will cross Blackhawk Road at approximately Station 16+90B within the MG&E Gas trench and then extend northerly in the MG&E Gas trench under the proposed sidewalk to approximately Station 130+00. Two 1.25-inch conduits will exit the joint trench at approximately Station 129+00 and extend easterly along the north side of Blackhawk Road to a new handhole located at approximately Station 17+40B LT just inside the existing right-of-way. This work will be completed during Stage 3 while Blackhawk Road is closed to traffic with an anticipated start date of September 5, 2023 and is anticipated to take approximately 10 working days to complete.

The new two 1.25-inch conduits will cross Pleasant View Road at approximately Station 130+00 to the west side of Pleasant View Road and exit the MG&E Gas trench. The two 1.25-inch conduits will then extend south to the proposed sidewalk for the Blackhawk Road roundabout and then under the sidewalk extending west and connecting to a new handhole at approximately Station 14+75B LT. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

The existing Restech Services fiber facilities will be discontinued in place.

TDS Metrocom LLC (Communication)

TDS Metrocom Utility Description:

Existing underground fiber optic cable is generally located along the east side of Pleasant View Road adjacent to the existing right-of-way from Station 141+26 to Station 165+72. Existing underground fiber optic cable crosses Pleasant View Road at Station 165+72 to an existing pole at Station 165+80 LT where the cable goes overhead. Two underground fiber optic services extend east from the main fiber optic cable at Station 163+07 RT and Station 165+72 RT.

Existing overhead fiber optic cable is generally located on the west side of existing Pleasant View Road from Station 165+72 to Station 178+00 and generally within the proposed southbound roadway. Existing poles are located at Station 165+72 LT, Station 168+04 LT, Station 169+83 LT, Station 171+70 LT, Station 174+10 RT, Station 176+48 LT, and Station 178+02 LT.

Existing underground fiber optic cable is generally located along the north side of Greenway Boulevard under the existing sidewalk from Station 50+00G to Station 52+31G.

TDS Metrocom Relocation Plans to Address Identified Conflicts:

Existing underground fiber optic facilities along Pleasant View Road from Greenway Boulevard to Station 165+75 will be discontinued in place. Existing aerial fiber optic facilities along Pleasant View Road from Station 165+75 to Station 178+00 on MG&E Electric poles will be removed as MG&E Electric removes this pole line.

TDS Metrocom will install new underground duct for fiber optic facilities from the MG&E Gas trench on the west side of Pleasant View Road at approximately Station 169+75 and cross Pleasant View Road at approximately Station 169+75 to the east side proposed terrace. The new underground duct will then continue along the south right-of-way of Quarry Road generally within the proposed terrace area from approximately Station 169+75 to Station 52+40'Q' ending at a new handhole connecting to existing facilities. TDS Metrocom will install new underground duct for fiber optic facilities within a joint MG&E Gas trench from approximately Station 169+75 to Station 178+00. This work is planned to be completed following completion of Stage 2 grading with an anticipated start date of June 12, 2023 and is anticipated to take approximately 20 working days to complete.

TDS Telecom (Communication)

TDS Telecom Utility Description:

Existing underground fiber optic cable from the west enters the Pleasant View Road right-of-way at Station 118+40 and then extends northerly generally located along the west side of Pleasant View Road adjacent to the existing right-of-way from Station 118+40 to Station 120+53 ending at a pedestal.

Existing underground telephone cable from the west enters the Pleasant View Road right-of-way at Station 118+40 and then extends northerly generally located along the west side of Pleasant View Road adjacent to the existing right-of-way from Station 118+40 to Station 125+61. The underground telephone cable then extends west to a pedestal outside of the project limits.

Existing underground fiber optic cable and underground telephone cable extends along the west side of Pleasant View Road from Blackhawk Road to Station 131+42 to an existing handhole and pedestal. The cables then extend from the existing handhole and pedestal and cross Pleasant View Road at Station 131+28 and ending at a pedestal on the east side of Pleasant View Road at Station 131+18. The cables then extend south along the east side of Pleasant View Road towards Blackhawk Road to an existing handhole at Station 129+14 RT.

Existing dual underground telephone cables are generally located on the east side of existing Pleasant View Road from Station 137+50 RT to Station 141+25 RT where the cable turns and extends easterly along the north side of Greenway Boulevard. A single underground telephone cable is located along the west side of Pleasant View Road starting at Station 140+41 and then extending southerly to Station 138+22 LT. The underground telephone cable then crosses Pleasant View Road at Station 138+16 and then extends northerly along the east side of Pleasant View Road to Station 142+01.

Existing underground fiber optic cable and underground telephone cable extends easterly from approximately Station 155+80, 25 feet right to beyond the project limits. Existing underground fiber optic cable extends easterly from an existing pedestal at Station 155+72 LT and crosses Pleasant View Road to a pedestal at Station 156+14 LT. Underground telephone cable then extends northerly along the east side of Pleasant View Road to an existing pole at Station 170+93 RT. Existing underground telephone cable extends westerly from an existing pedestal at Station 157+54 LT and crosses Pleasant View Road where it turns and extends southerly to Station 156+93 LT where it then continues westerly toward an existing cell tower site. Overhead telephone cable extends from a pole at approximately Station 160+54 RT and crosses Pleasant View Road to a pole at Station 161+19 LT. The overhead telephone cable then extends northerly along the west side of Pleasant View Road to an existing pole at Station 163+57 LT where it then extends westerly to outside of the project limits. An underground telephone cable service also extends westerly from the existing pole and pedestal at approximately Station 160+54 RT to the existing residential home at Station 161+50 LT. Existing underground telephone cable extends westerly from beyond the project limits at Station 162+65 and then turns and extends northerly along the east side of Pleasant View Road to Station 169+25. The existing underground telephone cable then extends easterly to beyond the project limits.

Existing overhead telephone cable extends northerly along the east side of Pleasant View Road from Station 170+93 to Station 178+02. Existing poles at Station 170+93 RT, Station 172+14 RT, Station 172+96 RT, Station 174+43 RT, Station 175+20 RT, Station 176+47 RT, and Station 178+02 RT are located within the proposed roadway or are located within the proposed grading limits. An overhead telephone cable extends westerly from the existing pole at Station 174+43 RT to an existing pole at Station 174+10 RT. An underground fiber optic cable and an underground telephone cable extend westerly from the existing pole at Station 174+10 RT to beyond the project limits. The existing pole at Station 174+10 RT is within the proposed roadway. An overhead telephone cable extends westerly from the existing pole at Station 176+47 RT to an existing pole at Station 176+48 LT. The existing overhead telephone cable continues westerly from the existing pole at Station 174+48 RT to beyond the project limits. The existing pole at Station 174+48 RT is within the proposed roadway.

Existing underground fiber optic cable and underground telephone cable is generally located along the north side of Blackhawk Road adjacent to the existing right-of-way from Station 10+71B to Station 21+14B.

Existing dual underground telephone cable is generally located along the north side of Greenway Boulevard adjacent to and outside the existing right-of-way from Station 50+00G to Station 52+31G.

Existing underground fiber optic cable and underground telephone cable is generally located along the south side of Quarry Road adjacent to and outside the existing right-of-way from Station 50+00Q to Station 51+56Q.

Existing underground telephone cable is generally located along the north side of the proposed multi-use path from Station 36+40BP to Station 37+68BP and extends to an existing pedestal at Station 37+68BP LT.

TDS Telecom Relocation Plans to Address Identified Conflicts:

TDS Telecommunications will install a new handhole on the north side of Blackhawk Road at approximately Station 16+90'B' to intercept existing facilities that continue east along the north side of Blackhawk Road. TDS Telecommunications will install two ducts from the new handhole and enter the MG&E Gas trench and continue north along Pleasant View Road in the MG&E Gas trench to Station 178+00. This work is planned to be completed in conjunction with MG&E Gas and it is anticipated the installation of the new communication lines will take 120 working days total with an anticipated start date of April 3, 2023.

TDS Telecommunications will exit the joint MG&E Gas trench on the west side of Pleasant View Road at approximately Station 130+00 and install a new handhole and pedestal. TDS Telecommunications will install two ducts from the new handhole extending west along the north side of Blackhawk Road to beyond the project limits of Blackhawk Road where a new handhole and pedestal will be installed to tie into existing underground fiber optic and underground copper telephone facilities. TDS Telecommunications will install a new fiber optic service from the new handhole and then extending north along the west right-of-way of Pleasant View Road to approximately Station 131+90 where it will extend westerly to the apartment building. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

TDS Telecommunications will exit the joint MG&E Gas trench on the west side of Pleasant View Road at approximately Station 138+90 and bore a new duct under Pleasant View Road to the east and then along the outside of the proposed sidewalk to existing TDS Telecommunications facilities at pedestal L10B-14/13 located in the south right-of-way of Greenway Boulevard. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

TDS Telecommunications will exit the MG&E Gas trench at approximately Station 152+00, 65' LT to a new handhole. TDS Telecommunications will jointly with Charter Communications install a new temporary pole line from Station 152+00 LT to the existing cell tower with poles located at approximately Stations 152+06.5, 65' LT; 153+72, 84' LT; and 155+43.5, 103' LT to be located beyond the grading limits. This work is planned to be completed prior to or at the start of Stage 1 with an anticipated start date of March 15, 2023 and is anticipated to take approximately 20 working days to complete.

TDS Telecommunications will exit the MG&E Gas trench at approximately Station 160+50, 65' LT to a new handhole. From the new handhole at Station 160+50, LT TDS Telecommunications will directional bore a new duct extending south along the west right-of-way of Pleasant View Road to a new handhole at approximately Station 155+98 LT and then extend westerly to the existing cell tower site. This work is planned to be completed following completion of Stage 2 grading with an anticipated start date of June 12, 2023 and is anticipated to take approximately 20 working days to complete.

TDS Telecommunications will exit the MG&E Gas trench at approximately Station 163+00, LT to a new handhole. From the new handhole at Station 163+00, LT TDS Telecommunications will directional bore a new duct under Pleasant View Road to the east right-of-way and place a new handhole along the east right-of-way intercepting extending TDS Telecommunications copper telephone facilities. TDS Telecommunications will discontinue in place existing copper telephone facilities along the east side of Pleasant View Road from Station 163+00 to approximately Station 169+30. This work is planned to be completed during Stage 2 grading with an anticipated start date of May 15, 2023 and is anticipated to take approximately 5 working days to complete.

TDS Telecommunications in conjunction with TDS Metrocom will install new underground duct for fiber optic facilities from the MG&E Gas trench on the west side of Pleasant View Road at approximately Station 169+75 and cross Pleasant View Road at approximately Station 169+75 to the east side proposed terrace. The new underground duct will then continue along the south right-of-way of Quarry Road generally within the proposed terrace area from approximately Station 169+75 to Station 52+40'Q' ending at a new handhole connecting to existing facilities. This work is planned to be completed following completion of Stage 2 grading with an anticipated start date of June 12, 2023 and is anticipated to take approximately 20 working days to complete.

TDS Telecommunications will discontinue in place existing underground fiber optic and copper telephone facilities from the new handhole at approximately Station 16+90'B' that continue north along the east side of Pleasant View Road, cross Pleasant View Road at approximately Station 131+42 and then extends westerly along the north side of Blackhawk Road.

TDS Telecommunications in conjunction with TDS Metrocom will discontinue in place existing underground fiber optic facilities along Pleasant View Road from Greenway Boulevard to Station 165+75. TDS Telecommunications in conjunction with TDS Metrocom will remove existing aerial fiber optic facilities along Pleasant View Road from Station 165+75 to Station 178+00 on MG&E Electric poles as MG&E Electric removes this pole line.

TDS Telecommunications will discontinue in place existing underground copper telephone facilities along Pleasant View Road from approximately Station 155+50 to Station 178+00.

Project 5992-11-02

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

Project 5992-11-02 was coordinated under ID 5992-11-01 and ID 5310-02-75. See above for a description of proposed utility work.

stp-107-066 (20080501)

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

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

stp-105-001 (20140630)

9. Referenced Construction Specifications.

Construct the work enumerated below conforming to the City of Madison Standard Specifications for Public Works Construction-Latest Edition (City of Madison Standard Specifications). 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:

Water Main-All work required in Project 5992-11-02, Category 0010

Sanitary Sewer-All work required in Project 5992-11-02, Category 0020

Construct the work enumerated below conforming to the City of Middleton Standard Specifications and Construction Contract Documents-Latest Edition (City of Middleton Standard Specifications). 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:

Water Main-All work required in Project 5992-11-02, Category 0030

Sanitary Sewer-All work required in Project 5992-11-02, Category 0040

stp-105-002 (20130615)

10. Notice to Contractor - Railroad Work During Construction and Additional Notification Requirements.

(To be added via addendum after advertisement)

11. Railroad Insurance and Coordination - Wisconsin and Southern Railroad Company

(To be added via addendum after advertisement)

12. Hauling Restrictions.

Conduct operations in a manner that will cause a minimum of inconvenience to the free flow of traffic on roadways carrying Pleasant View Road and USH 14 traffic at all times.

Use City of Madison designated truck routes for material haul roads.

Equip all vehicles traveling on public roads, hauling materials or removals that are subject to spillage, by either wind or vibration, with tailgates and adequate sideboards. Use canvas covers and any other protective devices to prevent spillage as determined necessary by the engineer. Comply with all local ordinances.

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Lorraine Betzel at (608) 246-3279. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

14. Environmental Protection, Dewatering.

Supplement standard spec 107.18 as follows:

If dewatering is required, treat the water to remove suspended solids before allowing it to enter any waterway or wetland. Provide a sedimentation basin with sufficient capacity and size to provide an efficient means to filter the water from the dewatering operation before it is discharged back into the waterway or wetland as provided in the standard specifications and these special provisions. As part of the Erosion Control Implementation Plan (ECIP) submittal, supply all pertinent information and calculations used to determine the best management practice for dewatering at each location.

Refer to the dewatering guidelines of WDNR Storm Water Management Technical Standards, Code #1061, “Dewatering”. This document can be found at the WDNR website: http://dnr.wi.gov/topic/stormwater/documents/Dewatering_1061.pdf

The cost of all work and materials associated with water treatment and/or dewatering is incidental to other bid items.

15. Erosion Control.

Supplement standard spec 107.20 with the following:

Erosion control best management practices (BMPs) shown on the plans are at suggested locations. The actual locations will be determined by the contractor’s ECIP and by the engineer. Include each dewatering (mechanical pumping) operation in the ECIP submittal. The ECIP will supplement information shown on the plans and not reproduce it. The ECIP will identify how to implement the project’s erosion control plan. ECIP will demonstrate timely and diligently staged operations, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-application of topsoil to minimize the period of exposure to possible erosion.

Provide the ECIP 14 days prior to the pre-construction conference. Do not implement the ECIP until department approval and perform all work according to the approved ECIP.

Maintain Erosion Control BMPs until permanent vegetation is established or until the engineer determines that the BMP is no longer required.

Stockpile excess materials or spoils on upland areas away from wetlands, floodplains, and waterways. Immediately install perimeter silt fence protection around stockpiles. If stockpiled materials will be left for more than 14 days, install temporary seed or other temporary erosion control measures the engineer orders.

Re-apply topsoil on graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed/sod, fertilize, and/or mulch/erosion mat top-soiled areas, as designated by the engineer, within five days after placement of topsoil. If graded areas are left not completed and exposed for more than 14 days, seed those areas with temporary seed.

Do not allow any excavation for structures, utilities, grading, maintaining drainage that requires dewatering (mechanical pumping) of water containing sediments (sand, silt, and clay particles) to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Prior to each dewatering operation, submit to the department a separate ECIP amendment describing in words and pictorial format an appropriate BMP for sediment removal, according to WDNR Storm Water Construction Technical Standard, Code 1061, Dewatering. Include reasoning, location, and schedule duration proposed for each operation. Per Code 1061, include all selection criteria: site assessment, dewatering practice selection, calculations, plans, specifications, operations, maintenance, and location of proposed treated water discharge. Provide a stabilized discharge area. If directing discharge towards or into an inlet structure, provide additional inlet protection for back-up protection. Dewatering is considered incidental to the project.

Keep all public roadways clean and free from dirt and debris at all times. Provide a self-contained mechanical or air conveyance street sweeper and dispose of the accumulated material.

Do not wash out equipment in drainage ways or direct conduits to waters of the state. Keep slurry out of inlets and drainage ways. Remove all temporary erosion control measures after disturbed areas are stabilized or at the direction of the engineer.

16. 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)

17. Archaeological Site.

German Lutheran Cemetery site is located approximately Station 118+50 to Station 119+87 Right within the 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 this area.

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

stp-107-220 (20180628)

18. Preservation of Existing Trees - City of Madison.

Tree preservation is of great importance on the project. Take precautions during construction so as not to disfigure, scar, or impair the health of any tree on public or private property that is not marked for removal. Do not place, park, or store on the surface of any unpaved areas within 5 feet of trees any equipment, vehicles, or materials. Do not deposit any chemicals, rinsates, or petroleum products within 5 feet of trees. The engineer and the City Forestry Representative will review trees within the City of Madison that are in close proximity to the grading limits of the project and will identify specific trees to be protected. City of Madison Standard Specifications for Public Works Construction Section 107.13 Tree Protection Specifications are available at:

https://www.cityofmadison.com/engineering/documents/standard-specifications/Part1.pdf

Preconstruction Pruning

Trees larger than 10 inches Diameter Breast Height (DBH) within the City of Madison will be pruned by City Forestry to an approximate height of 14 feet above the road wherever construction equipment is expected to invade the tree crown. Pruning will be done according to ANSI A300 tree pruning specifications. Occasionally a limb may have to remain at height less than 14 feet above the roadway. Note these instances during the ‘walk through’ and employ methods to protect the limb.

Excavations

Do not rip or pull roots out towards the trunk of a tree while excavating. The use of an excavator, backhoe, or loader to cut roots is not acceptable. Immediately cut damaged roots over 1/2-inch in diameter in back of the damaged section. Make cuts with lopping shears, chainsaw, stump grinder, or other means that will produce a clean cut. Cover any exposed roots as soon as excavation and installation are complete. Root pruning will be paid under the item Root Pruning Trees.

Underground Utility Excavation and Installation

Do not grade, excavate, or disturb the area within 5 feet of any tree measured from the outside edge of the tree at DBH along the length of the terrace within the City of Madison, without permission from the City Forestry Representative.

The engineer and the City Forestry Representative will review laterals in the City of Madison that are in close proximity to terrace trees on a case-by-case basis. The engineer may elect to terminate lateral or service installation prior to conflict with tree roots (i.e., at the curb line). For laterals that continue to the property line, use construction methods that minimize tree damage as directed by the engineer. The engineer may allow boring under or within the 5 feet protection zone.

Curb and Gutter Removal and Replacement

Provide extra care to root masses that grow very close to, up to or over the curb during excavation. The City Forestry marks “NRC” (No Root Cutting) within the City of Madison next to trees with roots that could be damaged in curb removal.

Sidewalk Removal and Replacement

Provide extra care to root masses that grow very close to the sidewalk during excavation. The City Forestry marks “NRC” (No Root Cutting) within the City of Madison next to trees with roots that could be damaged in sidewalk removal.

Terrace Restoration

Do not mechanically grade within 5 feet of any tree. If in the root protection zone, grade with hand implements in a manner that will minimize damage to the root system.

Damages

Failure to follow the proper safeguards of this specification within the City of Madison will result in the following cost recovery charges and liquidated damages assessed against the contractor:

Where construction damage occurs causing or resulting in removal of the tree of 3 inch diameter or less (as measured at 4 ½ feet above ground) within the City of Madison, the following damages will be assessed against the contractor:

- The costs associated with removing the tree including wood disposal.
- The costs associated with removing the stump to a depth of at least 24 inches below the ground.
- The costs associated with replanting a replacement tree that is balled and burlapped and a minimum caliper diameter of 2 inches. The species and replanting location will be determined by City Forestry.

Where construction damage occurs causing or resulting in removal of the tree of 3 inch diameter (as measured at 4 ½ feet above ground) within the City of Madison, the following damages will be assessed against the contractor:

- The costs associated with removing the tree including wood disposal.
- The costs associated with removing the stump to a depth of at least 24 inches below the ground.
- The costs associated with replanting a replacement tree that is balled and burlapped and a minimum caliper diameter of 2 inches. The species and replanting location will be determined by City Forestry.
- The value of the existing tree which will equal $125.00 per trunk diameter inch, measured at 4 ½ feet above ground.

For bark scraping, trunk wounding, and broken branches within the City of Madison the following damages will be assessed against the contractor:

- The costs associated with pruning broken branches, including wood disposal.
- Loss of limb or broken branch larger than 3 inches in diameter: $500.00 for each occurrence. Breakage of limbs that are less than 14 feet above the roadway shall be reviewed on a case by case basis.
- Damage to trunk or bark for trees measuring less than 8 inches as measured at 4 ½ feet: $500.00 for each area.
- Damage (measuring 8 square inches) to trunk or bark for trees measuring 8 inches to 12 inches as measured at 4 ½ feet: $500.00 for each area.
- Damage (measuring 16 square inches) to trunk or bark for trees measuring greater than 12 inches as measured at 4 ½ feet: $500.00 for each area.

For root cutting or excavation within the tree protection zone within the City of Madison the following damages will be assessed against the contractor:

- For mechanical excavation within 5 feet of a tree as measured from the outside edge of the tree trunk or visible above ground portion of the root system or within the designated tree protection zone, including ripping of roots back towards the trunk, without prior permission from the engineer: $500.00 for each occurrence.

- For mechanical excavation beyond 6 inches or 1 foot of the proposed curb installation, as determined by the size of the existing tree and terrace width, including ripping of roots back towards the trunk: $500.00 for each occurrence.
- For failure to cleanly cut damaged roots greater than 1 inch on the same day as the excavation: $500.00 for each occurrence.

The storage of parked vehicles, construction equipment, building materials, refuse, excavated spoils or dumping of poisonous materials on or around trees and roots within 5 feet from the face of the tree measured in any direction or within the designated tree protection zone within the City of Madison the following damages will be assessed against the contractor:

- Initial fine of $500.00 will be applied.
- For each additional day that materials, parking of vehicles or construction equipment remains within 5 feet of the tree a $500.00 fine will be applied.

19. Signing - City of Madison.

The City of Madison Traffic Engineering Division will remove existing City of Madison signs within the City of Madison as shown in the plans as required by stage. Contact Steve Grob, City of Madison Traffic Engineering at (608) 266-4767 at least five days prior to starting construction to arrange to have signs removed. Sign support bases and sign poles are to be removed and disposed of by the contractor.

The City of Madison Traffic Engineering Division will provide signs that are specific to the City of Madison as shown in the plans. The contractor will furnish all other signs, sign bases and sign poles. The contractor shall install all sign bases, sign poles, and signs. Contact Steve Grob, City of Madison Traffic Engineering at (608) 266-4767 to obtain signs specific to the City of Madison.

20. Signing - City of Middleton.

The City of Middleton Public Works will remove existing City of Middleton signs and sign posts within the City of Middleton as shown in the plans as required by stage. Contact Shawn Stauske, City of Middleton Public Works at (608) 821-8381 at least five days prior to starting construction to arrange to have signs removed. Sign support bases are to be removed and disposed of by the contractor.

The City of Middleton Public Works will install signs as shown in the plans. Contact Shawn Stauske, City of Middleton Public Works at (608) 821-8381 at least 30 days prior to the area being ready for installation of City of Middleton permanent signing to arrange for signing installation.

21. Coordination with Businesses and Residents.

The City of Madison and City of Middleton will arrange and conduct a pre-construction public involvement meeting. The contractor shall have a representative attend the public involvement meeting and be available to answer questions regarding the project schedule of operations including vehicular and pedestrian access during construction operations. The City of Madison and City of Middleton will prepare and coordinate publication of the meeting notices and mailings for meetings.

The contractor shall provide written (via email) monthly updates to the City of Madison and City of Middleton for use on their websites. The updates shall include information on the current traffic stage, items completed since the last update, and upcoming items to be completed.

22. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 7:00 PM until the following 7:00 AM (Sunday night through Saturday morning) and from 7:00 PM until the following 10:00 AM (Saturday night to Sunday morning), unless prior written approval is obtained from the engineer.

Any changes to the above working hours require the approval of the engineer.

23. General Provisions for Storm Sewer.

Construct all round and elliptical shape storm sewers according to the pertinent provisions of standard spec 608, 610, 611, and 612, as shown on the plans, and as follows.

Prior to ordering drainage pipes and structures, verify related drainage information in the plan with the engineer. This shall include all information obtained from the bid item "Utility Line Opening" (ULO). This also includes tie-in elevations and pipe sizes with the existing storm sewer conditions.

Seal the joints for reinforced concrete pipe with either mastic or internal rubber gaskets as described in standard spec 607.2.3 and 607.2.4. The use of mortar as a pipe joint method is prohibited unless directed by engineer.

Lay all round and elliptical shape storm sewers on a 6-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2.1 or when water is encountered, No. 1 coarse concrete aggregate according to standard spec 501.2.5.4. Bedding for round and elliptical pipe shall be incidental to the installation costs of the round or elliptical pipe.

Submit a dewatering plan with the ECIP for approval. Dewatering is incidental to all storm sewer pipe installation.

Construct catch basins, manholes and inlets using only precast or cast in place concrete masonry options. All structures shall be reinforced concrete. Concrete brick and block options are prohibited unless directed by engineer.

Construct all structures (manholes and inlets) on a 12-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2.1 or when water is encountered, No. 1 coarse concrete aggregate according to standard spec 501.3.6.4.5, and as shown on the plans. Bedding for structures shall be incidental to the installation costs of the structure.

Removal of apron endwalls when connected to Culvert Pipes Temporary bid item is included in the bid item cost of Culvert Pipes Temporary. Apron endwalls that are removed as a part of the existing conditions will be paid as a separate bid item.

Submit shop drawings for all precast structures to the engineer. The engineer will coordinate with the City of Madison or City of Middleton design engineer and shall have five days to approve or reject the shop drawings. Under no circumstance shall a precast structure be brought to or used on the construction site without a written approval of the shop drawing for that structure prior to its use on site.

Do not use station and offset for inlet structures, as given on the storm plans, for final layout of the structure. Determine the curb line in the area of the inlet prior to pouring the inlet structure to assure proper location of the inlet relative to the curb line.

The costs to connect storm sewer to existing structures or pipes, including tapping the hole, placing the pipe, and sealing the joint will be paid for separately by bid items Storm Sewer Tap and Concrete Collars for Pipe, where shown on the plans or directed by the engineer.

24. General Provisions for City of Madison Sanitary Sewer, Project 5992-11-02.

Contact Information

Madison Sewer Utility
Mark Moder
Phone: (608) 261-9250
Email: mmoder@cityofmadison.com

Utility Standard Specifications

Perform work according to these provisions and the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction and the City of Madison Standard Specifications for Public Works Construction-Latest Edition, hereinafter referred to as the *City of Madison Standard Specifications*.

Work Sequence

Contact the identified person above 10 working days prior to starting work on the sanitary sewer and provide a schedule of operations. Construct sanitary sewer main stages according to the traffic control plan and in proper coordination with construction for activities adjacent to the sanitary sewer main.

Provide bypass pumping of sanitary sewage to maintain sanitary sewer service when sections of existing sewer main are being replaced.

Shop Drawings and Samples

Submit shop drawings and samples to the engineer and City of Madison Engineering Department as required in these Special Provisions and for the following:

- Sanitary Sewer Pipe Material.
- Sanitary Sewer Access Structure Casting and Manhole Covers Type J (Madison logo lid).
- Select Fill for Sanitary Sewer.
- Sanitary Sewer Casing Pipe material and Spacers or Wedges for installation within casings.

Contractor's responsibilities include:

- Review shop drawings and samples prior to submittal.
- Determine and verify field measurements, field construction criteria, catalog numbers and similar data, and conformance with specifications.
- Coordinate each submittal with requirements of work and of Special Provisions.

Notify City Engineer or City Engineer's Representative, in writing, at time of submittal of deviations in submittals from requirements of Special Provisions.

NOTE: Do not begin any fabrication or work listed above as requiring shop drawings or samples until return of submittals with City Engineer's or City Engineer Representative's approval.

Provide shop drawings containing the following:

- Date of submittal and dates of previous submittals.
- Project title and number.
- Contract identification.
- Names of contractor, supplier, and manufacturer.
- Identification of product, with identification numbers, and drawing and specification section numbers.
- Field dimensions clearly identified.
- Identification of details required on drawings and in specifications.
- Manufacturer and model number (give dimensions and provide clearances).
- Relation to adjacent or critical features or work or materials.
- Applicable standards, such as ASTM, and identification of deviations from contract documents.
- Source of samples and material properties.
- Identification of revisions on re-submittals.
- Eight-inch and three-inch blank space for contractor and City Engineer stamps.
- Contractor's stamp, signed, certifying to review of submittal, verification of products, field measurement, field construction criteria, and coordination of information with submittal with requirements of work and Special Provisions.

If required by the City Engineer or City Engineer's Representative, resubmit shop drawings that include the following:

- Corrections or changes from previous submittals as indicated by City Engineer or City Engineer's Representative. Re-submittals are required until approved.
- Shop Drawings and Product Data: Review initial drawings or data and resubmit as specified for initial submittal. Indicate changes, which have been made other than those requested by City Engineer.

Testing and Acceptance

Submit materials production and field placement testing results as required by the City of Madison

Standard Specifications or as required by the City Engineer or City Engineer's Representative. Final acceptance of sanitary sewer and related materials such as backfill, slurry, etc. will come from the City Engineer or City Engineer's Representative.

Allow the City of Madison to sample/test materials as requested. Provide complete copies of required submittals as follows:

Shop Drawings: Six copies

Sampling/Testing Results: Three copies

Deliver required copies of submittals and testing results to Mark Moder, City of Madison, Department of Public Works, City-County Building, Room 115, 210 Martin Luther King Jr. Boulevard, Madison, Wisconsin 53710.

The City Engineer or City Engineer's Representative will review and return shop drawings to the contractor within one week of date of receipt.

Protection of Sewers

Take adequate measures to prevent impairment of operation of existing sanitary sewer and storm sewer systems. Prevent construction material, concrete, earth, or other debris from entering sewer or sewer structure.

Divert sewage flow interfering with construction to sanitary sewers leading away from construction area. Prior to commencing excavation and construction of work impacting existing city sewer, submit to City Engineer for review, detailed plans, including routing and connections, required to handle and dispose of sanitary wastes. By reviewing the plan, the City Engineer neither accepts responsibility for adequacy thereof nor for damages to public or private property resulting there from, such responsibilities remain with the contractor.

Sanitary sewer damaged or removed during construction, which is to remain in service, will be restored or replaced to original material and workmanship used for original construction.

All City of Madison manhole castings removed from sewer access structures (removed, abandoned, or swapped out with a casting elevation adjustment) will be delivered to City Engineering's Service Building, 1600 Emil Street, Madison, WI 53713.

The costs to remove all abandoned utility pipes within the new sanitary sewer pipe trench or new sewer access structure excavation will be included in the unit price bid for the new pipe of the type, class and diameter used. The cost includes installing a concrete plug in the portion of the abandon pipe that remains in place after completion of sanitary sewer trench.

According to the City of Madison Standard Specifications, "Pipe to be removed that is in the same trench as a new pipe will not be compensated as remove pipe and will be considered to be incidental to the new pipe installation." Same trench will be considered to be any pipe located with 3 feet horizontally of the pipe being installed.

City of Madison (sanitary sewer) has underground facilities located within the project area. Relocation of the underground facilities will be accomplished as part of contract 5992-11-02, Category 0020 by the contractor. Existing facilities and anticipated proposed improvements are as follows:

- Pleasant View Road near Swallowtail Pond - Remove and replace sewer section adding 24-inch steel casing, reconstruct existing sanitary sewer access structures, insulate sections of existing sanitary sewer main.
- Pleasant View Road and Blackhawk Road Intersection - Reconstruct and adjust existing sanitary sewer access structures.

Sanitary Sewer removals, replacements, and adjustments are included as part of the project as shown on the plans. Complete all work within the existing right-of-way. Coordinate operations with the City of Madison. Contact Mark Moder (608) 261-9250.

25. General Provisions for City of Madison Water Main, Project 5992-11-02.

Contact Information

Madison Water Utility
Kelly Miess
Phone: (608) 261-9640
E-mail: kmiess@madisonwater.org

Utility Standard Specifications

Perform work according to these provisions and the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction and the City of Madison Standard Specifications for Public Works Construction-Latest Edition, hereinafter referred to as the *City of Madison Standard Specifications*. In the event of a conflict the Wisconsin Department of Transportation Standard Specifications will take precedence.

Work Sequence

Contact the identified person above 10 working days prior to starting water main work and provide a schedule of operations.

Contact the identified person above 10 working days prior to starting work on the water main and provide a schedule of operations. Construct water main stages according to the traffic control plan and in proper coordination with construction for activities adjacent to the water main.

As construction staging and sequence allows, disinfect the new water mains. Madison Water Utility will flush and test all newly installed water mains. Coordinate as necessary with Madison Water Utility for these operations. After the water main has passed bacteriological and pressure testing, make connections to the existing water system. Water main installation will consist of strategic abandonment of the existing water main. Abandon existing water main only after the new water main has passed all required testing, new main has been properly brought online into the system and all service laterals, except those called to be abandoned, have been relocated to the new main.

Keep valves at connection points between the new water main and the existing water main closed until the new water main has passed all testing. Where new valves need to be opened to fill the new water main for testing and flushing, sequencing shall be so arranged to preclude backflow of any water from the new water main to the existing water main.

Following the installation of replacement water services and the connection of replacement water main to the existing water main at locations noted on the plans, the existing water main shall be cut off; drained; open ends plugged or bulk-headed with concrete; and the pipe abandoned in place. This work is considered incidental to the new water main installation.

Service Disruption Notification

Follow City of Madison Standard Specifications for water service outage notification for all affected customers.

Hydrants

Determine the location of the curb line, sidewalk limits, and existing utilities in the area prior to hydrant installation to assure the proper location of the hydrant relative to the curb line. This work is considered incidental to the new water main installation.

Where needed, use offsets and/or bends on the hydrant lead such that the hydrant is installed at a minimum bury depth of six feet and required clearances with storm sewer, sanitary sewer and other pipes are maintained. In no case may a hydrant be set at a depth greater than nine feet from grade. Assess the need for hydrant extensions. All hydrant extensions and fittings on the lead are incidental to the installation of the hydrant.

Either permanently abandon or securely bag any installed hydrant, either existing or new, that is not supplied by an in-service main overnight or for longer than twelve hours until the hydrant is permanently abandoned or back in service.

Temporary Flushing Hydrants

The installation of temporary flushing hydrants may be desired as part of the phasing and sequencing of water main installation. The furnishing, installation, use and abandonment of temporary flushing hydrants is considered incidental to water main installation.

Temporary Air Bleed

Where any installation of proposed water main does not have an adjacent hydrant or other means of bleeding air from the main, install a temporary 2-inch corporation stop at the high point of the main. Remove the stop and plug the opening after successful completion of water main testing. Installation, use, maintenance, removal and plugging of corporation stops for use as air bleeding devices are considered incidental to the installation of water main.

Abandoned Facilities

Abandoned facilities exist within the project limits and utility companies will be abandoning some additional facilities in place after relocating facilities to avoid conflicts with the proposed work. Removal by the contractor of any abandoned facilities necessary to complete the proposed work, including plugging the remaining ends of the facility, is considered incidental to the contract. Contact each utility company individually to verify if any can be expected and to possibly obtain facility maps for approximate locations. The costs to remove all abandoned utility pipes within the new water main trench or related excavation will be included in the unit price bid for the respective bid item. The cost includes installing a concrete plug in the portion of the abandoned pipe that remains in place after completion of the trench or excavation.

Location of Existing Water Facilities

The horizontal and vertical location and size of all existing water mains indicated on the plans is taken partially from surveys, approximate measurements, and the city's available records. These records are not guaranteed to be accurate in all cases. Due to the unverified depth and location of existing pipelines, alteration of the lines and grades shown on the plans for new pipelines where connections are to be made to existing pipelines may be necessary. Notify the engineer of locations where alterations of the lines and grades shown are necessary so that an acceptable solution can be determined.

26. General Provisions for City of Middleton Sanitary Sewer, Project 5992-11-02.

Contact Information

Middleton Sanitary Sewer Utility
Dave Sarbacker
Phone: (608) 821-8375
E-mail: dsarbacker@ci.middleton.wi.us

Utility Standard Specifications

Perform work according to these provisions and the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction and the City of Middleton Standard Specifications-Latest Edition, hereinafter referred to as the *City of Middleton Standard Specifications*. In

the event of a conflict the Wisconsin Department of Transportation Standard Specifications will take precedence. *City of Middleton Standard Specifications* section 100, 200, and 500 shall be applicable for Category 0040 work.

Work Sequence

Contact the identified person above 10 working days prior to starting work on the sanitary sewer and provide a schedule of operations. Construct sanitary sewer main stages according to the traffic control plan and in proper coordination with construction for activities adjacent to the sanitary sewer main.

Provide bypass pumping of sanitary sewage to maintain sanitary sewer service when sections of existing sewer main are being replaced.

Testing

A. Contractor shall prepare all pipeline for testing and shall furnish all equipment, materials, tools, and labor necessary for performance of the tests.

B. All gravity sanitary sewer shall be tested as specified below. For sewers that are not connected to existing buildings, testing shall be completed after laterals have been installed. For new sewers where buildings are to be reconnected to the sewer, testing shall be completed without subjecting the service lateral to the test, either by segmenting the main or by reconnecting the service lateral after testing is completed on the sewer main. Maintain temporary service to all existing buildings at all times during construction and testing without backups or overflows.

    1. Sanitary Sewer Gravity Mains 18-inch and Smaller: Leakage testing of sanitary sewer gravity mains less than 18 inches shall be conducted by the low pressure air test method as specified in ASTM C828 for vitrified clay pipe, or ASTM F1417 for PVC pipe or ABS truss pipe, or ASTM C924 for concrete pipe. Equipment for the low pressure air test of gravity mains shall be equal in all operational aspects to that as furnished by Cherne Industrial, Inc., or United Survey, Inc.

    2. Sanitary Sewer Gravity Mains 18-inch and Larger: These mains shall be tested for leakage by exfiltration. If groundwater is less than 2 feet above the sewer, the stretch of sewer shall be plugged at its downstream end and water shall be placed inside the sewer to provide a minimum of 4 feet of head above the upstream end. contractor shall furnish all labor and materials necessary for making the tests. The allowable leakage shall be as indicated for infiltration test. If groundwater is 2 feet or more above the sewer, the exfiltration test is not required.

    3. Infiltration Test: At the conclusion of construction and before final acceptance of the work, the downstream end of all new gravity sewer mains will be measured for infiltration. Allowable infiltration shall not exceed 200 gallons/inch of pipe diameter/mile/day for the entire system under groundwater, including manholes. If infiltration is exceeded, the leak or leaks shall be located and repaired. All leakage tests shall be witnessed by engineer. Where infiltration is observed, all sewers shall be tested by measuring the infiltration through the use of a weir installed in the manhole at the downstream end of the sewer being tested.

C. Leakage Testing - Force Main: Leakage and pressure testing of all force mains shall be completed according to Section 403.

D. Deflection Test: All non-composite PVC sanitary sewer pipe shall be tested for deflection. Maximum deflection after completion of backfilling shall be 5% of the inside pipe diameter. Deflection shall be measured by pulling a mandrel with a vertical diameter equal to 95% of the pipe inside diameter through the line, after thoroughly flushing the lines to be tested. The testing device shall be controlled using cables at both the upstream and downstream manholes. The testing device must pass freely through the sewer without the use of unreasonable force on the control cables. Any line which will not pass the test cylinder will not be accepted until the faulty sections have been removed and replaced and the line retested.

E. Sanitary sewer shall be videotaped by contractor one month after testing unless otherwise allowed by engineer to accommodate an earlier restoration schedule. Videotaping shall be required of all new construction, replacements and repairs, including sewer laterals. All sanitary sewers up through 12-inch diameter that are found to have standing water during videotaping shall be relaid to eliminate standing water, or, if approved by the city of Middleton, contractor, in

lieu of relaying pipe, shall pay city of Middleton 50% of the bid price for that length of pipe with standing water.

F. Utility installations which fail to meet the test limits shall be repaired in a manner acceptable to engineer. Defective pipe installations should be uncovered and relaid with new pipe, to repair the defect. Under no circumstances shall defects be sealed from the interior of the pipe, and only where specifically allowed by engineer shall defects be sealed from the exterior of the pipe.

Construction Procedures

A. Sanitary Sewer Mains: Alignment and grade of all sewer lines shall be checked with a laser device unless otherwise approved by engineer.

B. Manholes: All manhole openings, including lift holes, adjustment rings, and pipe connections shall be sealed watertight with approved materials. Manhole barrel section joints are to be sealed watertight with O-ring gaskets, Ram Nek, Mas Tik, or approved equal.

C. Repairs and Replacement: Pipe repairs shall be made by replacement of the defective pipe section with new pipe of equivalent inside diameter. Piping alignment, grade, bedding, cover, and backfilling shall be provided according to these specifications.

1. Field cuts of all types of pipe shall provide a straight true cut without chipping or cracking pipe.
2. For replacement of reinforced concrete, composite (truss), PVC or ductile iron pipe, the new pipe shall be made of the same material, unless otherwise approved. For replacement of clay pipe, the new pipe shall be ABS composite truss pipe.
3. Replacement sections shall be connected with rigid couplings whenever possible.
    a. If rigid coupling of same material as pipe is not available for main repair, connect to existing pipe with Hymax® 2000, manufactured by Total Piping Solutions, Inc.
    b. If rigid connection cannot be made on a lateral, connect to existing pipe with Fernco, Mission, or equal coupling to provide a watertight connection.

D. Except as modified herein, all pressure pipe shall be installed according to AWWA C600 and AWWA C900 for ductile iron and PVC pipe, respectively.

E. All cost associated with sewer repair and replacement as result of damaged caused by construction or testing activities shall be considered incidental and no additional payment shall be made.

Abandonment of Existing Sanitary Sewer Facilities

A. Where existing sanitary sewer facilities are shown on the drawings to be abandoned, or where existing abandoned facilities are discovered during construction, contractor shall abandon these facilities as follows:

1. Remove existing pipes or fill them with sand or grout and seal ends with a minimum 2-foot-thick grout plug.
2. Remove existing manholes to at least 2 feet below finished grade. Provide a minimum 6-inch hole in the bottom of the structure and fill the remaining portion with bedding stone.
3. Salvage all castings, and any other appurtenances identified for salvage in the Special Provisions, and deliver them to city of Middleton at the City Water Utility yard behind the water tower at 3640 High Road.

B. Cost for this work, as identified on the drawings, shall be paid for according to individual bid items as described below.

27. General Provisions for City of Middleton Water Main, Project 5992-11-02.

Contact Information

Middleton Water Utility
Dave Sarbacker
Phone: (608) 821-8375
E-mail: dsarbacker@ci.middleton.wi.us

Utility Standard Specifications

Perform work according to these provisions and the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction and the City of Middleton Standard Specifications-Latest Edition, hereinafter referred to as the *City of Middleton Standard Specifications*. In the event of a conflict the Wisconsin Department of Transportation Standard Specifications will take precedence. *City of Middleton Standard Specifications* section 100, 200, and 400 shall be applicable for Category 0030 work.

Work Sequence

Contact the identified person above 10 working days prior to starting water main work and provide a schedule of operations.

Contact the identified person above 10 working days prior to starting work on the water main and provide a schedule of operations. Construct water main stages according to the traffic control plan and in proper coordination with construction for activities adjacent to the water main.

As construction staging and sequence allows, disinfect the new water mains. Prior to filling and flushing the new mains, backfill the trench to its full depth. All bends and special connections to the main shall be adequately restrained prior to filling. Any damage caused to the water main or its appurtenances during disinfection or testing shall be corrected by the contractor at their expense.

Flushing and Testing

A. Middleton Water Utility will flush and test all newly installed water mains. Coordinate as necessary with Madison Water Utility for these operations. After the water main has passed bacteriological and pressure testing, make connections to the existing water system. Water main installation will consist of strategic abandonment of the existing water main. Abandon existing water main only after the new water main has passed all required testing, new main has been properly brought online into the system and all service laterals, except those called to be abandoned, have been relocated to the new main.

B. Flushing.

1. Notify the engineer 24 hours in advance of need for filling and flushing main. Operation of valves and hydrants shall be done by Water Utility personnel only. Make provisions to dechlorinate flush water and stabilize splash zones from erosion. Prior to flushing, provide to engineer a written De-chlorination and Flushing Plan, subject to review and approval by engineer. The Plan shall include as a minimum the following:
    a. Specific description of the chemical de-chlorination product to be used
    b. Description of the equipment to be used for de-chlorination, capable of fitting the 2.5” nozzle on hydrants
    c. If flush water is to be trucked off site, a specific quantity and size of trucks that will be used, along with a rotation schedule for truck trips to ensure adequate capacity to capture and haul a continuous flow of flush water
    d. Description of any needed erosion control measures
2. Flushing shall not commence until all materials, equipment, trucks and erosion control measures to be used are on site and operational. Provide a representative on site during the entirety of the flushing process to address any erosion control or equipment issues that may arise.
3. Flushing to sanitary sewer shall not be allowed.
4. On-site de-chlorination shall reduce the chlorine concentration to no greater than 1.0 ppm (mg/l).

C. Water Main Disinfection: Furnish all material, equipment and labor necessary to disinfect all new water mains and all existing mains disturbed by construction according to AWWA C651. Sampling and testing will be completed by the city of Middleton. Schedule this work to be completed prior to contract completion. Items of material for testing shall be furnished in the size and quantity necessary to properly complete the test. Interruption or delay of work progress caused by testing and sampling shall not be cause for extra payment under the Contract nor shall it be cause for extension of contract time. Costs for items furnished under this section shall be included as incidental work under the various items included in the Bid. No water system improvements shall be put into service until safe samples have been confirmed. Obtain all necessary permits for disposal of water flushed from new water mains.

D. Keep a record of all tests performed. These records shall show the individual lengths of main tested and test results.

E. Where connections are made to existing mains for testing, it shall be the responsibility of contractor to provide the necessary hydrostatic tests on all new mains installed. This may necessitate, but is not limited to, the installation of temporary valves to isolate the new system from the existing system. All materials, work, and equipment necessary for this work shall be furnished by contractor at his expense.

F. Water Main Testing:

Leakage/Pressure Test: contractor shall conduct hydrostatic pressure tests and leakage tests of all joints according to the requirements of AWWA C600. During performance of the hydrostatic pressure and leakage test the main shall be subjected to a test pressure of 1-1/2 times normal static pressure (with a minimum pressure of 100 psi) for 2 hours. All air shall be removed from the water main prior to testing by flushing and by installing corporations at high points as necessary. Pressure test of the mains shall be conducted after installation of the service corporation stops and water laterals.

Continuity Test:

a. All water main shall be tested for continuity.

b. Contractor shall provide all materials, labor, and equipment necessary to perform continuity test on water main installed under this Contract. Test shall be performed in presence of engineer.

c. Test segments shall be continuous between two fire hydrants. In areas where there are no hydrants available, test sections shall be between valves or other locations subject to approval of engineer.

d. Contractor shall use an ohmmeter or continuity tester to verify that electrical continuity exists across all joints.

e. Any sections of water main that fail the continuity test shall have defective connections or tracer wire breaks identified and repaired.

Keep valves at connection points between the new water main and the existing water main closed until the new water main has passed all testing. Where new valves need to be opened to fill the new water main for testing and flushing, sequencing shall be so arranged to preclude backflow of any water from the new water main to the existing water main.

Following the installation of replacement water services and the connection of replacement water main to the existing water main at locations noted on the plans, the existing water main shall be cut off; drained; open ends plugged or bulk-headed with concrete; and the pipe abandoned in place. This work is considered incidental to the new water main installation.

Construction Procedures

A. Foreign material must not be allowed to enter the pipe while it is being installed.

B. Unless otherwise directed, pipe must be placed with bell end facing in the direction of the laying.

C. Whenever it is necessary to deflect pipe from a straight line, either in the vertical or horizontal plane, to avoid obstructions or to plumb stems or where long radius curves are provided, the amount of deflection allowed shall not exceed that recommended by pipe manufacturer and approved by engineer.

D. For pipelines intended to be straight, deviation from the line shall not exceed 1-inch.

E. Where water main crosses sanitary or storm sewer, the water main pipe shall be laid so that joints are approximately one half of one pipe length distant from the sewer.

F. Hydrants shall be placed according to standard detail drawing at locations shown on the drawings or requested by engineer.

G. All hydrants shall stand plumb and shall have the pumper nozzle perpendicular to the roadway. Each hydrant shall be connected to the main with a 6-inch ductile iron lead.

Abandonment of Existing Water Main Facilities

A. Mains.

Where existing water main facilities are required to be abandoned, or where existing abandoned facilities are discovered during construction, contractor shall abandon these facilities as follows: Section 400-7 Water Main of the *City of Middleton Standard Specifications.*

1. Remove existing pipes or seal ends with a minimum 2-foot thick grout plug, mechanical joint plug, or mechanical joint cap.
2. Remove existing fire hydrants and valve boxes. Remove valve manholes to at least 2 feet below finished grade. Provide a minimum 6-inch hole in the bottom of the structure and fill the remaining portion with bedding stone.
3. Salvage all castings, valve boxes, valve stems, and fire hydrants, and any other appurtenances identified for salvage in the special provisions and deliver them to the city of Middleton at the City Water Utility yard behind water tower at 3640 High Road.
4. Cost for this work, as identified on the drawings, shall be paid for separately for individual bid items or included as part of other related work items being performed for the contract.

28. General Provisions for Marking.

Supplement standard spec 646 as follows:

For full size patterns for arrows and word legends within the City of Madison section as shown on the plans, contact the City of Madison Traffic Engineering Field Operations Facility at 1120 Sayle Street, phone (608) 266-4767.

Within the City of Middleton section as shown on the plans, use City of Middleton stencils for pavement marking words and symbols. Contact Shawn Stauske, City of Middleton Director of Public Works, at (608) 821-8381 to arrange for obtaining the stencils.

29. General Provisions for Conduit Installation.

Supplement standard spec 652 as follows:

Use Schedule 80 conduit under all traffic areas.

Install all conduit at a minimum depth of 30 inches, unless otherwise approved by the engineer. Solvent weld all joints. Mark the location of each conduit, where conduit crosses traffic areas, by a permanent chiseled arrow or other appropriate permanent stamp in top of the curb head.

Install and connect all conduit to the concrete bases, manholes, handholes, existing conduit, or conduit elbows so as to provide a continuous network, unless otherwise indicated on the plan. All connections shall be watertight. Do not install drainage holes in conduit. Uncover the ends or mid-sections of all existing conduit that is being extended by or incorporated into this project work.

When connections are to be made to an existing conduit, first verify that the existing conduit is fully clear and useable for its entire cross-section and length. When the existing conduit is found to be defective, notify the engineer and do not proceed until the engineer so directs. If the contractor connects to an existing defective conduit without the express direction from the engineer, make any and all necessary repairs and replacements to all conduits, including conduit that was “existing” prior to the contractor starting work. All costs of this work shall be at the expense of the contractor.

Turn up conduits terminating in a non-paved location and not in a structure, and end at terrace finish grade with a PVC cap securely attached, per duct termination detail. Where conduit runs parallel to curb and gutter, place the conduit within 12 inches of the back of the curb, except as directed by the engineer. The engineer will determine termination points not within pull boxes or concrete bases.

Unless the contract provides for installation of cable, cap the ends of each run of conduit with standard conduit caps or otherwise appropriately plug the ends to preclude infiltration of water and soil. Install a pull wire in each conduit, except those with only streetlight wire. A pull wire shall be approximately 4 feet longer than the conduit run and shall be doubled back for at least 2 feet at each terminal. The pull wire shall be #10 AWG copper, stranded, with THHN insulation and green color coding. Install the pull wire within seven days of completing a conduit installation from structure-to-structure.

Use a 6-inch minimum sand padding below the conduit and a 6-inch minimum sand lift above the conduit. Do not backfill trench with any rocks larger than 4 inches in diameter or any foreign debris.

30. General Provisions for Traffic Signals.

Perform all work on the lighting and conduit/pull box system according to the Wisconsin Electrical Code, the applicable provisions of the standard specifications, and these special provisions and plans.

The City of Madison will remove existing traffic signals and “signal only” poles at the Blackhawk Road intersection when the temporary signals are in place at the intersection. Contact Michael Benzschawel at the City of Madison Traffic Engineering Shop, (608) 266-9031, to coordinate removal of existing signals.

Remove existing streetlight poles identified for removal, including those that also have traffic signal equipment on them.

The City of Madison will maintain and operate the existing signal at the Pleasant View Road-Blackhawk Road intersection until removed.

31. General Provisions for City of Madison Electrical Systems.

A General Requirements

Perform this work according to the Wisconsin Electrical Code, National Electrical Contractors Association (NECA) electrical construction practices, OSHA and the standard specifications.

Perform all work on the lighting and conduit/pull box system according to the Wisconsin Electrical Code, and applicable provisions of standard spec 659, and these special provisions and plans.

Carefully remove and salvage the steel frames and covers from all pull boxes and manholes to be removed or abandoned, and all street light poles, arms, transformer bases, fixtures, concrete handholes, and associated equipment. Material designated by the city to be saved shall be returned to City Traffic Engineering, 1120 Sayle St, Madison, WI.

Complete electrical work by a journey-worker electrician or be completed by an electrical apprentice under the supervision of a journey-worker electrician. Legal status or standing as a journey-worker and apprentice electricians shall be certified or otherwise documented to the engineer before beginning any electrical work. Electrical work is hereby defined as electrical and related construction required to be performed under the contract by the contractor, according to the standard specifications, contract provisions, standard detail drawings and plan details applicable to electrical construction.

At the pre-construction conference, supply the engineer with a list of names and qualifications of journey-workers and/or electrical apprentices who will or may be working on this contract.

Proof of qualification to do electrical journey-worker level work shall be the “Completion of Apprenticeship” certification card issued by an approved state agency, or a resume showing sufficient electrical education and a minimum of 14,000 hours of varied electrical work experience. All apprentices shall be indentured by an approved state agency.

The contractor is hereby advised that electrical apprentices must work under the terms of their indentures, which require an apprentice be under the direct supervision of a journey-worker with the exception of an apprentice in the final year as an apprentice. Any violation, or suspected violation, of these terms will be reported to the Bureau of Apprenticeship Standards.

On completion of the work, test the installation and ensure that it is entirely free of grounds and short circuits. This contract contemplates and intends a complete and operating installation of electrical work. Everything in the form of labor or material necessary for this result is in the intent of the contract.

It must be understood that electrical drawings and details are diagrammatic; they are not intended to be shop drawings. It is expected it may be necessary to move conduit, and/or equipment in some cases, to get a coordinated installation. Such changes are considered part of the contract obligation, without cost to the department. Do not locate any equipment where its usefulness and/or operation may be affected by the work of other trades, door swing, counter, equipment, etc.

The contractor acknowledges his acquaintance with the plans and specifications and their respective requirements and shall guarantee the electrical system has been installed strictly according to the electrical plans and specifications, using only the best of materials available and installed in a substantial manner by experienced labor. The contractor agrees to replace and/or repair items failing from causes of faulty workmanship, material or design, without extra cost, at any time within one year from the date of final acceptance.

Furnish the City of Madison with service manuals for all items furnished under this contract. Service manuals shall be complete with drawings, diagrams, operation and installation instructions, and parts lists.

New streetlight wire in conduits shall consist of 3#6 and 1#8 green wire. The color coding for the #6 wire shall be one black, one red, and one white.

Ground wires shall have green insulation or be marked with green tape at all junction or pull boxes and at all terminations. Equipment and enclosures shall be grounded, ground connection surfaces shall be cleaned, and connections shall be made so it is impossible to move them.

All maintenance of existing street light facilities within the project limits shall be the contractor's responsibility. Maintain the new streetlights until project work is accepted. This work shall be considered incidental to installation of street light units, temporary lighting, and no separate compensation will be paid.

Extend existing lighting circuits to feed the new and relocated lights as part of this project. Verify the existing loads of each lighting circuit before adding additional load to a lighting circuit. Loading on any circuit shall not exceed NEC requirements.

Submit one copy of as-built plans, including cable and conduit routing diagrams, wiring of fixtures and other pertinent details, to the engineer and the City of Madison.

Furnish equipment and appliances necessary to test the complete installation of electrical conductors. Test and demonstrate to the satisfaction of the engineer that the circuits are properly connected, continuous and free from short circuits and unspecified grounds, that the circuits are connected according to the manufacturer's wiring layout, and that each circuit is operational. The lighting system shall not be deemed complete until the electrical work has been completed and the electrical systems are found to be in proper working order, including operation for ten consecutive nights without failure.

B Materials

All materials furnished by the contractor for lighting installation under this contract are subject to approval by the engineer.

Manufacturers shall be responsible for providing materials listed by UL or other approved agencies and all governing codes and ordinances. Materials must bear a UL and/or other approved labels, where possible. Items specified by catalog number of brand name and shop drawing approval will not relieve the manufacturer of this responsibility. All electrical material for which a standard has been established by the Underwriters Laboratories, Inc. shall be furnished and installed under this contract. Material shall have the UL label firmly attached and be listed by UL Listing signifies that the material has passed the established standard testing. All electrical materials shall conform to the latest requirements of the Wisconsin Electrical Code.

All materials, not specified herein, used in the work shall conform to the requirements specified on the plan or the contract special provisions.

Furnish and install incidental items, such as wire nuts, grommets, tape, connectors, and electrical varnish that are obviously necessary to make the proposed system complete from the source of supply to the most remote unit.

Touch up mars and scratches on painted equipment with two coats of synthetic resin enamel or as directed by the engineer.

Furnish a complete list and cut sheets/shop drawings of materials to be furnished and used for lighting. Include the names and addresses of manufacturers, together with catalog numbers, certificates of compliance, specifications, and other product information requested by the engineer. Submit the list and cut sheets/shop drawings within 20 calendar days of the award of the contract. Do not incorporate any materials into the lighting system prior to obtaining the written approval of the engineer. Approval does not change the intent of the specifications. Do not substitute any materials. The contractor is allowed up to two submittals of material for approval. If more than two submittals are required, the contractor will be charged on a time-and-material basis for additional review time with payment made before submittals will be reviewed.

C Splices

Splices shall comply with standard spec 659.3.2. All splices within a junction box, handhole, etc. shall be of the same type. No splices are allowed in underground pull boxes, except for grounding conductors.

D Circuit Identification

Accomplish color coding by using cable jackets of the proper color. Code all tails of all splices. Color-code secondary distribution circuits as shown on the plans; the ground conductor shall be green. Each accessible location of underground cable in junction boxes, pull boxes and pole bases shall have a permanent white nylon tag with black lettering, attached in a “flag” manner using a nylon tie, identifying the cabinet and conductor circuit number.

E Branch Circuit Tagouts

The contractor may at his option work on live circuits or he may disconnect and tag out circuits. Any branch circuit not disconnected and tagged out shall be considered live; restrict work force to those qualified to work on live circuits. Disconnection may be made by disconnecting branches at the overcurrent device. Make tagouts with contractor furnished manufactured electrical warning tags and endorse with the name of the contractor, the date, and the project. Clear all tagouts by the end of the workday.

F Threaded Fasteners

Liberally coat all threaded fasteners, i.e., screws, and bolts with an approved anti-seize compound. Excepting fasteners inside control cabinets, fasteners up to 1/2-inch in diameter shall be stainless steel.

Provide rust, corrosion and anti-seize protection at threaded assemblies by coating the mating surfaces with Markal (Hightemp E-Z Break), Never-Seez (marine grade), LPS 100, Lubriplate or approved equal.

G Bonding Wire

Install bonding wire in conduits for equipment grounding. Ground all equipment as required.

H Initial Failures

The contractor and the engineer shall agree on a time for test burning of completed installations, which is generally toward the end of the contract period. Replace failed lamps, along with any other non-functioning component, for no additional compensation. Only one test burn for the purpose of identifying initial failures will be required. Coordinate supply of replacement lamps with the city.

I Project Construction Staging

The construction of the new lighting system shall maintain the integrity of the existing lighting systems within and beyond the project limits at all times. Exceptions to this shall only be granted for just cause by the engineer.

J Items of the Same Classification

All items of the same classification shall be of the same manufacturer and series.

L Underground Installation

Ensure that the engineer has inspected all underground conduit and concrete base forms before backfilling any trench or pouring concrete. Any work completed without such inspection is subject to rejection as unacceptable work and shall be immediately removed and acceptably replaced or otherwise satisfactorily corrected by and at the expense of the contractor. It is the contractor’s responsibility to arrange for inspections. There will not be any additional compensation to the contractor for delays and inconvenience associate with arranging and waiting for inspections.

32. Removing Apron Endwall, Item 204.9060.S.01.

A Description

This special provision describes removing endwalls conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Apron Endwall as each individual endwall, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Apron Endwall	EACH

stp-204-025 (20150630)

33. Removing Storm Sewer Outlet Control Structure, Item 204.9060.S.02

A Description

This special provision describes removing Storm Sewer Outlet Control Structure conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Storm Sewer Outlet Control Structure as each individual structure, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.02	Removing Storm Sewer Outlet Control Structure	EACH

stp-204-025 (20150630)

34. Removing Commercial Sign, Item 204.9060.S.03

A Description

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

B (Vacant)

C Construction

Notify the property owner two weeks before the commercial sign is removed. Sign removals shall be reviewed and approved by the engineer before removal work begins. Coordinate with the property owner and electric utility to disconnect power to the commercial sign being removed. Remove the conduit from the existing sign to the easement line and place a temporary marker at the end of the remaining conduit. Remove the wire from the building to the removed sign.

Sign poles, sign assemblies, and wiring shall become property of the contractor. Remove all removed items from the project site. The contractor is responsible for the legal hauling and disposal of the removed items.

D Measurement

The department will measure Removing Commercial Sign as each individual commercial sign, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.03	Removing Commercial Sign	EACH

Payment is full compensation for disconnecting power, removing sign poles, sign assemblies, conduit, and wiring, hauling and disposal of items.

204-025 (20150630)

35. Removing RRFB, Item 204.9060.S.04.

A Description

This special provision describes removing rectangular rapid flashing beacons including poles, solar panels, and attached equipment conforming to standard spec 204.

B (Vacant)

C Construction

Perform a field review of existing equipment with City of Middleton staff for condition of equipment before removal. The City of Middleton will identify all items to be removed and salvaged or disposed.

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Removal of concrete bases will be paid for with separate items.

After removal of RRFB equipment, deliver all salvage materials to the City of Middleton at a mutually agreed location within the city.

D Measurement

The department will measure Removing RRFB as each individual rectangular rapid flashing beacon, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.04	Removing RRFB	EACH

stp-204-025 (20150630)

36. Removing Pillars, Item 204.9060.S.05

A Description

This special provision describes removing brick masonry pillars conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Pillars as each individual pillar, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.05	Removing Pillars	EACH

stp-204-025 (20150630)

37. Removing Traffic Signals Pleasant View Road & USH 14, Item 204.9060.S.06.

A Description

This special provision describes removing and salvaging existing traffic signals (by assembly) at the intersection of Pleasant View Road and USH 14 according to the pertinent provisions of section 204 of the standard specifications and as hereinafter provided. Items included under this bid item include pedestal bases, transformer bases traffic signal standards, traffic signal poles, traffic signal mast arms, traffic signal luminaire arms, signal heads, backplates, signal mounting hardware, and signs.

B Materials

Supply any incidental materials required to complete the work described in this special provision.

C Construction

Arrange for the de-energizing of the traffic signal assembly with the Region Electrical Field Unit by contacting the department's on-call electrician at (608) 785-9080 at least five working days prior to the removal of each traffic signal unit. Complete the removal work as soon as possible following shut down of this equipment.

Carefully disconnect and remove traffic signal assembly and cabling.

Dispose of all equipment, including traffic signal units, cables, and wiring.

D Measurement

The department will measure Removing Traffic Signals Pleasant View Road & USH 14 by each individual unit, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.06	Removing Traffic Signals Pleasant View Road & USH 14	EACH

stp-204-025 (20150630)

38. Excavation Common.

Supplement standard spec 205.3.1 with the following:

For material generated from excavation common from Swallowtail Pond, prepare the Wisconsin Department of Natural Resources form 4400-248 Accumulated Sediment End Use Certification and submit to the engineer. The sediment manager will be the City of Madison city engineer. This document can be found at the WDNR website:

http://dnr.wi.gov/files/PDF/forms/4400/4400-248.pdf

39. 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. Additionally, coordinate timing of blasting operations and provide a copy of the Blasting Plan to Darren Jantzi at PPD Laboratories, 8551 Research Way, Suite 90, Middleton, Wisconsin to allow PPD Laboratories to manage calibration of sensitive analytical balances used for weighing materials in their laboratories. Darren Jantzi will forward the blasting plan to their geotechnical consultant for review of the blasting design and potential impacts to the existing rock wall and rock wall mitigation on their property adjacent to Pleasant View Road. If the geotechnical consultant for PPD Laboratories identifies issues, they will communicate with the engineer. Adjust the Blasting Plan as directed by the engineer to address PPD Laboratories identified issues.

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 and nearby exposed rock faces as required by the scaled-distance equation specified in the Wisconsin Administrative Code Department of Safety and Professional Services SPS 307.41. 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, utilities, or analytical balances used by PPD Laboratory, 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, utilities, and analytical balances used by PPD Laboratory.

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 including Darren Jantzi at PPD Laboratories, 8551 Research Way, Suite 90, Middleton, Wisconsin, phone (608) 203-4025. 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
Rock Cut Wall	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.

40. Embankment.

A Description

This special provision describes providing special compaction for embankment placed between Station 115+50 and Station 118+25.

Replace standard spec 207.3.6.3(2) with the following:

(1) Compact the full depth of the embankment to at least 98 percent of maximum dry density.

Delete standard spec 207.3.6.3(3).

Add the following to standard spec 207.3.6.3:

(7) Perform compaction testing on the embankment. 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 embankment, 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.

41. 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)

42. QMP Base Aggregate Dense 1 1/4-Inch Compaction, Item 371.2000.S.

A Description

(1) This special provision describes modifying the compaction and density testing and documentation requirements of work done under the Base Aggregate Dense 1 1/4-Inch bid items. Conform to standard spec 305 as modified in this special provision and to the contract QMP Base Aggregate article.

(2) Provide and maintain a quality management program. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process related to construction of dense graded base which meets all the requirements of this provision.

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

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

(4) This special provision applies to Base Aggregate Dense 1 1/4-Inch material placed: above at least 16 inches of subgrade improvement, 12 inches of subgrade improvement and geogrid or QMP subgrade provisions, between shoulder hinge points and lower than mainline pavement. Unless otherwise specified by the contract, all Base Aggregate Dense 1 1/4-Inch material placed on side roads, private and public entrances, individual ramps less than 1500 feet, passing lanes less than 1500 feet, tapers, turn lanes, and other undefined locations are exempt from the compaction and density requirement modifications and testing contained within this special provision.

B (Vacant)

C Construction

C.1 General

(1) The engineer shall approve the grade before placement of the base. Approval of the grade shall be according to applicable provisions of the standard specifications.

Add the following to standard spec 305.3.2.2:

(3) For 1 1/4-Inch dense graded base composed of < or = 20% reclaimed asphaltic pavement (RAP) or crushed concrete (RCA), as determined by classification of material (aggregate or RAP and/or RCA) and percentage by weight of each material type retained on the No. 4 Sieve, the contractor must determine the material target density according to:

Method 1: Maximum dry density according to AASHTO T-180, Method D, with correction for coarse particles and modified to require determination of Bulk Specific Gravity (Gm) according to AASHTO T 85. Bulk Specific Gravities determined according to standard spec 106.3.4.2.2 for aggregate source approval may be utilized.

(4) For 1 1/4-Inch dense graded base composed of >20% RAP or RCA, as determined by classification of material (aggregate or RAP and/or RCA) and percentage by weight of each material type retained on the No. 4 Sieve, the contractor may choose from the following options to determine the material target density:

Method 2: Maximum dry density as determined by AASHTO T-180, Method D, with correction for coarse particles, and modified to require determination of Bulk Specific Gravity (G_m) according to AASHTO T 85.

Method 3: Maximum wet density as determined by AASHTO T-180, Method D, modified to define *Maximum Density* as the wet density in pounds per cubic foot of soil at optimum moisture content using Method D specified compaction, with correction for coarse particles, and modified to require determination of Bulk Specific Gravity (G_m) according to AASHTO T 85.

Method 4: Average of 10 random control strip wet density measurements as described in section C.2.5.1.

(5) Compact the 1 1/4-Inch dense graded base to a minimum of 93.0% of the material target density for methods 1, 2 and 3. Compact 1 ¼-inch dense graded base to a minimum of 96% of the material target density for method 4. Ensure that adequate moisture is present during placement and compaction operations to prevent segregation and to help achieve compaction.

(6) Base Aggregate Dense 1 1/4-Inch will be accepted for compaction on a lot basis.

(7) Field density tests on materials using contractor elected target density methods 3 or 4 will not be considered for lot acceptance on the basis of compaction under the requirements of this provision until the moisture content of the in-place material is less than 2.0 percentage points above the maximum wet density optimum moisture or 2.0 percentage points of the average moisture content of the 10 density tests representing a control strip, respectively. Determine moisture content using AASHTO T255 as modified in CMM chapter 8 or a nuclear density gauge. If conducting AASHTO T255, sample materials after watering but before compaction.

C.2 Quality Management Program

C.2.1 Quality Control Plan

(1) Submit a comprehensive written quality control plan to the engineer no later than 10 business days before placement of material. Do not place any dense graded base before the engineer reviews and accepts the plan. Construct the project as the plan provides.

(2) 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. Lot layout and random test location plan.
8. A description of placement methods and operations. Including, but not limited to: staging, construction of an initial working platform, lift thicknesses, and equipment.

C.2.1 Pre-Placement Meeting

A minimum of two weeks before placement of Base Aggregate Dense 1 1/4-Inch material, hold a pre-placement meeting at a mutually agreed upon time and location. Present the Quality Control Plan at the meeting. Attendance at the pre-placement meeting is mandatory for the project superintendent, quality control manager, project inspection and testing staff, all appropriate contractor personnel involved in the sampling, testing, and quality control including subcontractors, and the engineer or designated representatives.

C.2.2 Personnel

(1) Perform the quality control sampling, testing, and documentation required under this provision using technicians certified by the department's Highway Technician Certification Program (HTCP). Have a HTCP Nuclear Density Technician I, or ACT certified technician, perform field density and field moisture content testing. Adhere to the minimum required certifications for aggregate testing per part 7 of the standard specification. AASHTO T180 proctor testing requires a minimum certification level of AGGTEC-1.

(2) If an 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.2.3 Equipment

(1) 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.

(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

(3) 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.

(4) For all target density methods, conform to AASHTO T310 and CMM 8-15 for wet density testing and gauge monitoring methods.

(5) For the specified target density determined using method 1 in section C.1, compute the dry densities for the compacted dense graded base, composed of < or = 20% RAP or RCA, according to AASHTO T310.

(6) For contractor elected target density method 2 in section C.1, compute dry densities of dense graded base composed of >20% RAP or RCA using a moisture correction factor and the nuclear wet density value. Determine the moisture correction value, for each Proctor produced under the requirements of C.2.5, using the moisture bias as shown in CMM 8.15.12.1 and 8.15.12.2, except the one-point Proctor tests of the 5 random tests is not required. Conduct a moisture bias test for every 7500 feet of Base Aggregate Dense 1 1/4-Inch placed. Determine natural moistures in the laboratory.

(7) Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Backscatter may be used only if the material being tested cannot reliably maintain an undistorted direct transmission test hole. Direct transmission tests must be performed at the greatest possible probe depth of 2 inches, 4 inches, or 6 inches, but not to exceed the depth of the compacted layer being tested. Perform each test for at least one minute of nuclear gauge count time.

C.2.5 Contractor Testing

(1) Perform compaction testing on the mainline dense graded base material, as defined by A.(4). Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians as required in C.2.3. Conform to CMM 8-15 for testing and gauge monitoring methods.

(2) Select test sites randomly using ASTM Method D3665. Random numbers may be determined using an electronic random number generator. Guidance for determining test locations can be found in section 8-30.9 of the Construction and Materials Manual (CMM). Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.

(3) When a density target is determined in accordance methods 3 or 4 in section C.1, conduct density testing on same date of final compaction.

C.2.5.1 Contractor Required Quality Control (QC) Testing

(1) Conduct testing at a minimum frequency of one test per lot. A lot is 1500 feet for each layer with a maximum width of 18 feet, minimum width of 6 feet, and minimum lift thickness of 2" of Base Aggregate Dense 1 1/4-Inch material placed. Each lot of compacted Base Aggregate Dense 1 1/4-Inch material, as defined by A.(4), will be accepted when the lot field density meets the required minimum density. Lots that don't achieve density requirements must be addressed and approved according to C.2.7.

(2) Add separate lots for passing lanes and individual ramps greater than 1500 feet.

(3) Combine partial lots less than 750 feet with the previous lot. Partial lots greater than or equal to 750 feet are standalone lots.

(4) Notify the engineer, if a lot field density test falls below the required minimum value. Document and perform corrective actions according to C.2.7. Deliver documentation of all compaction testing results to the engineer at the time of testing.

C.2.5.1.1 Target Density Determination

C.2.4.1.1.1 Maximum Wet and/or Dry Density Methods

(1) For contractor elected target density methods 2 and 3 in section C.1, and contractually specified target density method 1 in section C.1; perform one gradation and 5-point Proctor test before placement of 1 ¼-Inch dense graded base. Perform additional gradations every 3000 tons according to standard spec 305 and 730. If sampling requirements are identical, samples/testing performed for the QMP Base Aggregate specification may be used to fulfill the gradation testing requirements of this specification.

(2) Perform additional 5-point Proctor tests, at a minimum, when:

1. The four point moving average gradation on any one sieve differs from the original gradation test result for that sieve, by more than 10 percentage points. The original gradation test is defined as the gradation of the material used to create a 5-point Proctor. Each 5-point Proctor test will remain valid for any material with gradation for all sieves within 10.0 percentage points of that Proctor's original gradation test.
2. The source of base aggregate changes.
3. Percent target density exceeds 103.0% on two consecutive density tests.

(3) Provide Proctor test results to the engineer within two business days of sampling. Provide gradation test results to the engineer within one business day of sampling.

(4) Split each contractor QC Proctor sample and identify it according to CMM 8-30. Deliver the split to the engineer within one business day for department QV Proctor testing.

(5) Split each non-Proctor contractor QC sample and identify it according to CMM 8-30. Retain the split for 7 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.

C.2.5.1.1.2 Density Control Strip Method

(1) For contractor elected target density method 4 in section C.1, construct a control strip for each layer of placement to identify the target wet density for the base aggregate dense material. The control strip construction and density testing will occur under the direct observation and/or assistance of the department QV personnel. For blended material, reprocessed material and crushed concrete, perform additional gradations every 3000 tons according to standard spec 305 and 730. If sampling frequencies are identical, samples/testing performed for the QMP Base Aggregate specification may be used to fulfill the gradation testing requirements of this specification.

(2) Unless the engineer approves otherwise, construct control strips to a minimum dimension of 300 feet long and one full lane width.

(3) Completed control strips may remain in-place to be incorporated into the final roadway cross-section.

(4) Construct additional control strips, at a minimum, when:

1. The source of base aggregate changes.
2. The four point moving average percentage of blended recycled materials, from classification of material retained on the No. 4 sieve in the original gradation test, differs by more than 10 percentage points. The original gradation test is defined as the gradation of the material used to construct the control strip.
3. The layer thickness changes more than 2.0 inches.
4. The percent target density exceeds 103.0% on two consecutive density measurements.

(5) Construct control strips using equipment and methods representative of the operations to be used to place and compact the remaining 1 1/4–Inch Base Aggregate Dense material. Wet the base, as mutually agreed upon by the contractor and engineer, to obtain and/or maintain adequate moisture content to ensure proper compaction. Discontinue water placement if the base begins to exhibit signs of saturation or instability.

(6) After compacting the control strip with a minimum of 2 passes, mark and take density measurements at 3 random locations. Subsequent density measurements will be taken at the same 3 locations. Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.

(7) After each subsequent pass of compaction equipment over the entirety of the control strip, take wet density measurements at the 3 marked locations. Continue compacting and testing until the increase in wet density measurements are less than 2.0 lb/ft^3, or the density measurements begin to decrease.

(8) Upon completion of control strip compaction, take 10 randomly located wet density measurements within the limits of the control strip. The final measurements recorded at the 3 locations under article C.2.4.1.1.2 may be included as 3 of the 10 measurements. Average the ten measurements to obtain the control strip target density and target moisture for use in contractor elected method 4 in section C.1. Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.

C.2.6 Department Testing

C.2.6.1 General

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

(2) When a density target is determined in accordance methods 3 and 4 in section C.1, conduct density testing on same date of final compaction.

C.2.6.2 Quality Verification (QV) Testing

(1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.2.3 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

(2) The department will conduct QV tests at the minimum frequency of 20% of the required gradation, density and Proctor contractor tests.

(3) The department will utilize contractor's QC Proctor results for determination of the material target density. The department will verify QC Proctor values by testing QC Proctor split sample. The department will use QC Proctor value as a target density if the QC and QV Proctor test results meet the tolerance requirements specified in section C.2.6.2(7).

(4) The department will locate gradation and nuclear density test samples, at locations independent of the contractor's QC work, collecting one sample at each QV location. Sampling for gradation may be done independently of nuclear density tests, before watering and before compacting. The department will split each QV sample, test half for QV, and retain the remaining half for 10 calendar days.

(5) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.

(6) The department will utilize control strip target density testing results in lieu of QV Proctor sampling and testing when the contractor elected target density method 4 in section C.1 is used.

(7) 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 QV test results are nonconforming, take corrective actions according to C.2.7 until the requirements of this special provision are met. Differing QC and QV nuclear density values of more than 2.0 pcf will be investigated and resolved. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.2.6.3 Independent Assurance (IA)

(1) 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. Requesting that testing personnel perform additional sampling and testing.

(2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.2.6.4.

C.2.6.4 Dispute Resolution

(1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor shall review the data, examine data reduction and analysis methods, evaluate sampling and testing methods/procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

(2) Production test results, and results from other process control testing, may be considered when resolving a dispute.

(3) If 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.2.7 Corrective Action

(1) Lots not achieving the minimum density requirements may be addressed and accepted for compaction according to the requirements of this section. Unless directed by the engineer, corrective actions taken to address an unacceptable lot must be applied to the entire lot corresponding to the non-conforming test.

(2) Investigate the moisture content of material in an unacceptable lot. Moisture content testing/samples collected under the QC and/or QV testing articles of this specification may be used to complete this investigation. Obtain moisture content readings according to ASTM D 6938. For material composed of >20% RAP or RCA, correct the moisture content with the moisture correction value using the moisture bias, as shown in CMM 8.15.12.1 and 8.15.12.2, except the one-point Proctor tests of the 5 random tests is not required.

(3) Lots with moisture contents within 2.0 percentage points of optimum moisture for target density methods 1, 2 and 3 in section C.1, or within 2.0 percentage points of the target moisture content for target density method 4 in section C.1, and exhibiting no signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, shall be compacted a minimum of one more pass using equipment and methods representative of the operations used to place and compact the Base Aggregate Dense 1 1/4–Inch, and density tested at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft^3 continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft^3, the lot is accepted as satisfying the compaction requirements of this provision.

(4) Lots with moisture contents within 2.0 percentage points of optimum moisture for target density methods 1, 2, or 3 in section C.1, or within 2.0 percentage points of the target moisture content for target density method 4 in section C.1 and exhibiting signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, will be reviewed by the engineer. The engineer may request subgrade improvement methods, such as excavation below subgrade (EBS), installation of geotextile fabrics, installation of breaker run material, or others to be completed, or may request an additional pass of compactive effort using equipment and methods representative of the operations used to place and compact the base aggregate dense and density test.

1. If, after an additional pass, the change in density at the same location (station and offset) as the failing QC and/or QV density tests exceeds 2.0 lb/ft^3 in a lot continue subsequent compactive efforts and density testing on that lot. If the change in density at the same location (station and offset) as the failing QC and/or QV density tests is less than or equal to 2.0 lb/ft^3, and subgrade improvement methods are not requested by the engineer, the lot is accepted as satisfying the compaction requirements of this provision.

2. If subgrade improvement methods are requested by the engineer, upon completion, including compaction of the restored base material, conduct a density test within the improved subgrade limits. This density test result will replace the prior field density value. If the lot field density equals or exceeds the minimum density requirement defined in section C.1, the lot is accepted as satisfying the compaction requirements of this provision. If the lot field density fails to achieve the minimum density requirement defined in section C.1, compact the lot a minimum of one more pass using equipment and methods representative of the operations used to place and compact the base aggregate dense; and density test at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft^3 continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft^3, the lot is accepted as satisfying the compaction requirements of this provision.

(5) Unacceptable lots, with moisture contents in excess of 2.0 percentage points above or below optimum moisture for target density methods 1, 2 or 3 in section C.1; or in excess of 2.0 percentage points above or below the target moisture content for target density method 4 in section C.1; shall receive contractor performed and documented corrective action; including additional density testing.

(6) Density tests completed subsequent to any corrective action will replace previous field density test results for that lot. Continue corrective actions until the minimum density requirement is achieved or an alternate compaction acceptance criteria is met according to this section.

(7) Field moisture contents of materials tested using contractor elected target density methods 3 or 4 in section C.1 cannot exceed 2.0 percentage points of the optimum moisture content or 2.0 percentage points of the target moisture content, respectively. Density tests on materials using contractor elected target density methods 3 or 4 in section C.1 will not be considered for lot compaction acceptance until the moisture content of the corresponding density test of the in-place material is less than 2.0 percentage points above of the optimum moisture content or 2.0 percentage points of the target moisture content, respectively.

D Measurement

(1) The department will measure the QMP Base Aggregate Dense 1 1/4-Inch Compaction bid item by each lot, acceptably completed per C.2.5.1.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH

(2) Payment is full compensation for performing compaction testing; for sampling and laboratory testing; and for developing, completing, and documenting the compaction quality management program. The department will pay separately for providing aggregate under the Base Aggregate Dense 1 1/4-Inch bid item.

(3) The department will pay for additional tests directed by the engineer. One engineer directed test is equal to one acceptably completed lot of the QMP Base Aggregate Dense 1 1/4 -Inch Compaction bid item. The department will not pay for additional corrective action tests required due to unacceptable material.

stp-370-010 (20210113)

43. Coloring Concrete Custom, Item 405.0200.

This special provision describes coloring concrete Natural Bark for incorporation full-depth in work constructed under other contract bid items. Conform to standard spec 405 as modified in this special provision.

Replace standard spec 405.2.1.1(1) with the following:

(1) Integrally color concrete using non-fading pigments conforming to ASTM C979.

- For Natural Bark: use synthetic non-fading iron oxides at a loading of six percent minimum and maximum loading of eight percent by weight of total cementitious material in the mix. Match the concrete color in reasonably close conformance with color similar to the existing colored concrete located along East Johnson Street between Baldwin Street and First Street in the City of Madison.

Replace standard spec 405.2.1.1(3) with the following:

(3) The department will accept the color based on comparison to color samples available for viewing at along East Johnson Street between Baldwin Street and First Street in the City of Madison.

stp-405-020 (20190618)

44. 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-08-00toc.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 8-15.

B.2 Testing

(1) Conform to ASTM D2950 and CMM 8.15 for density testing and gauge monitoring methods. Conform to CMM 8-15.10.4 for test duration and gauge placement.

B.3 Equipment

B.3.1 General

(1) Furnish nuclear gauges according to CMM 8-15.2.

(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 CMM 8-15.7.

B.3.2.2 Comparison Monitoring

(1) Conduct reference site monitoring for both QC and QV gauges according to CMM 8-15.

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 8-15.10.2.

(2) Determine required number of tests according to CMM 8-15.10.2.1.

(3) Determine random testing locations according to CMM 8-15.10.3.

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 8-15.10.2.

(2) Determine required number of tests according to CMM 8-15.10.2.2.

(3) Determine random testing locations according to CMM 8-15.10.3.

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 8.15. 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 (20181119)

45. 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)

46. Expansion Device, Item 502.3101.

A Description

This special provision describes furnishing and installing an expansion device as the plans show conforming to standard spec 502 as modified in this special provision.

B Materials

Furnish components for the Expansion Device System from an approved fabricator selected from the department's approved product list of Fabricated Bridge Components – Expansion Devices.

To be eligible for this project, expansion devices from other manufacturers must be pre-approved before the bid closing date. Applications for pre-approval may be submitted at any time. Prepare the application according to the department requirements. If needed, obtain information and assistance with the pre-approval process from the Structures Maintenance Section in the Bureau of Structures, by sending an email to the following address: DOTDLStructuresFabrication@dot.wi.gov.

Expansion device strip seal gland size requirement of 4-inches, 5-inches, and 6-inches shall be as the plans show.

The minimum thickness of the polychloroprene strip seal shall be 1/4 inch for non-reinforced elastomeric glands and 1/8 inch for reinforced glands. Furnish the strip seal gland in lengths suitable for a continuous one-piece installation at each individual expansion joint location. Provide preformed polychloroprene strip seals that conform to the requirements ASTM D3542, and have the following physical properties:

Property Requirements	Value	Test Method
Tensile Strength, min.	2000 psi	ASTM D412
Elongation @ Break, min	250%	ASTM D412
Hardness, Type A, Durometer	55 ± 5 pts.	ASTM D2240
Compression Set, 70 hours @212˚F, max.	35%	D395 Method B Modified
Ozone Resistance, after 70 hrs. at 100˚F under 20% Strain with 100 pphm ozone	No Cracks	ASTM D1149 Method A
Mass Change in Oil 3 after 70 hr. 212˚F Mass Change, max.	45%	ASTM D471

Install the elastomeric strip seal gland with tools and a lubricant adhesive recommended by the manufacturer.

Furnish manufacturer's certification for production of polychloroprene represented showing test results for the cured material supplied and certifying that it meets all specified requirements.

The steel extrusion or retainer shall conform to ASTM designation A 709 grade 36 steel. After fabrication, steel shall be galvanized conforming to the requirements ASTM A123.

Manufacturer's certifications for adhesive and steel shall attest that the materials meet the specification requirements.

stp-502-020 (20210113)

47. Prefabricated Steel Truss Pedestrian Bridge B-13-892 LRFD, Item 506.8006.S.

A Description

This special provision describes providing a fully engineered, fabricated steel truss pedestrian bridge structure, including bearings the plans show. Conforming to standard spec part 5 as modified in this special provision. Regard these specifications as minimum standards for design and construction.

B Materials

B.1 Approved Manufacturers

The bridge shall be designed and manufactured by an approved designer and supplier selected from the department's approved products list.

To be eligible for this project, pre-fabricated bridges from other manufacturers must be pre-approved before the bid opening date. Applications for pre-approval may be submitted at any time. Prepare the application according to the department requirements. If needed, obtain information and assistance with

the pre-approval process from the Structures Maintenance Section in the Bureau of Structures, by sending an email to the following address: DOTDLStructuresFabrication@dot.wi.gov.

B.2 Design Requirements

Structural design of the pedestrian bridge shall be by a professional engineer registered in the State of Wisconsin.

Design the bridge according to the most recent edition of the AASHTO LRFD Bridge Design Specifications, all current interims, and the AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges, except as modified herein.

Design welded tubular connections according to the Structural Welding Code-Steel ANSI/AWS D1.1. The fracture critical requirements of ANSI/AWS D1.5 do not apply, and Charpy V-notch impact testing will not be required. Loading shall be as stated in Section 3 of the AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges. The bridge shall be a half-through truss with profile as the plans show with one diagonal per panel. Chords, diagonals, verticals, bracing, and floor beams may be tube steel. Tube steel shall have a minimum thickness of 1/4 inch, angles shall have a minimum thickness of 1/4-inch, C-shaped side dams shall have a minimum web thickness of 3/16-inch, and W-shapes shall have a minimum web thickness of 1/4-inch if painted or coated and 5/16-inch if not painted or coated. All other steel shapes shall have a minimum thickness of 5/16 inch unless contract plans allow a minimum thickness of less than 5/16 inch for other steel shapes. Field splices shall be bolted with ASTM F3125 Grade A325 high `strength bolts according to the "Specifications for Structural Joints Using High Strength Bolts". Type 3 bolts are required for weathering steel. For top and bottom chord field splices, splice plates are required on both the inside and outside surface of all four sides of the spliced tubing so that each bolt will be acting in double shear. Nuts may be welded to the splice plates to hold them in place during installation. When the collection of water inside a structural tube is a possibility, either during construction or during service, provide the tube with a drain hole at its lowest point.

If the profile grade line is on a crest vertical curve, camber the bridge to match the profile grade line the plans show plus the calculated dead load deflection. For a single span bridge, if the profile grade line has a constant slope (no vertical curve), camber the bridge to offset the calculated dead load deflection plus an amount equal to 1% of the bridge length. For a bridge with two or more spans, if the profile grade line has a constant slope (no vertical curve), camber the bridge to offset the calculated dead load deflection only. Concrete bridge decks shall be continuous over the floor beams. Concrete bridge decks may be supported by stay in place corrugated galvanized steel deck forms unless the contract plans specify removable deck forms only. The maximum depth of the stay in place corrugated steel deck forms shall be 2 inches. The steel area of the stay in place corrugated steel deck forms shall not be considered for the design of the concrete deck. Design of the stay in place corrugated steel deck forms shall be included with the truss design. The minimum slab thickness shall be 5.5 inches for removable deck forms and 6 inches for stay in place corrugated steel deck forms. For stay in place corrugated steel deck forms the 6 inch minimum is measured from the bottom of the deck form. Design the longitudinal reinforcing steel in the slab based on a wheel load located 1 foot from the face of the curb or toe plate, or a pedestrian live load of 90 psf, whichever controls.

Concrete strength (f'_c) shall be 4,000 psi and F_y of bar steel shall be 60,000 psi. A concrete mix with a unit weight of 120 pcf or 150 pcf may be used at the option of the manufacturer/contractor. Use a design dead load of 120 pcf or 150 pcf to match the concrete mix selected. Use load factors of 1.25 for dead load and 1.75 for live load for the design of the concrete slab and floor beams. Minimum concrete cover shall be 2 inches for top reinforcement and 1 inch for bottom reinforcement. Design the bridge for expansion and contraction with a temperature range of -30º F to 120º F. Utilize Teflon slip pads or other approved material on the sliding surface of the expansion bearing assembly.

Install protective screening, when required, as the plans show. Use protective screening that is 9 gauge chain link fence with 2 inch mesh, coated as the plans show.

B.3 Plan Requirements and Submittals

Submit shop drawings and calculations to the engineer conforming to standard spec 105.2 with electronic submittal to the fabrication library under standard spec 105.2.2. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings.

Make the submittal no later than 12 weeks after date of notice of contract approval. Allow the following time period in the construction schedule: 20 calendar days after the first receipt of plans by the Structures Design Section for a complete initial review of the design and plans submittal, and an additional 20 calendar days for any necessary revisions and/or corrections.

In the submittal, include the following:

1. Basic design criteria shown on the design plans.
2. Complete detailed drawings of all structural steel connections, sizes of members, span lengths between bearing points, skews, walkway widths, height of handrails and safety rails, bearing assembly details, anchor bolt locations, concrete deck reinforcement, design data, materials data, and dead and live load bearing reactions.
3. Engineer's certification. The plans shall be sealed, signed, and dated by a professional engineer registered in the State of Wisconsin.
4. One set of design calculations with independent checks.

The department will return shop drawings from this submittal, and any subsequent submittals, to the fabrication library, either indicating acceptance or marked with required revisions and/or corrections.

B.4 Weld Testing

An independent agency shall perform nondestructive weld testing; the manufacturer shall pay for this testing. All welds are to be visually inspected except as noted below.

Ten percent of all fillet welds shall be magnetic particle tested.

All full penetration welds of chords shall be ultrasonically or radiographically tested.

Bottom chord welded tube splices for tube thicknesses less than 3/8 inches thick shall be radiographically tested or covered with fillet welded splice plates with non-intersecting welds which develop 75% of the spliced member strength.

Submit electronically a written testing report upon completion.

C Construction

C.1 Delivery and Erection

Deliver the bridge by truck to the location that is nearest to the site and accessible by road. The contractor is responsible for unloading the bridge from the trucks at the time of arrival.

The manufacturer shall notify the contractor in advance of the expected arrival time. Information regarding delays after the trucks depart the plant such as inclement weather, delays in permits, rerouting by public agencies, or other circumstances shall be passed on to the contractor as soon as possible.

The manufacturer shall provide an erection procedure to the contractor and shall advise the contractor of the actual lifting weights, attachment points, and all other information needed to install the bridge. Unloading, splicing, bolting, and providing proper lifting equipment as well as all tools, equipment, labor, and miscellaneous items required to complete the work is the responsibility of the contractor. The procedure for bolting field splices shall be given to the contractor by the manufacturer.

C.2 Finishes

When unpainted steel is specified on the plans, all fabrications shall be produced from high strength, low alloy, atmospheric corrosion resistant ASTM A847 cold-formed welded square and rectangular tubing, ASTM A606 sheet, and/or ASTM A588, ASTM A242, or ASTM A709 Grade 50W plate and structural steel shapes (F_y=50,000 psi) with a minimum corrosion index of 5.8 per ASTM G101.

Blast-clean all exposed surfaces of weathering steel according to Steel Structures Painting Council Surface Preparation Specifications No. 7 Brush-Off Blast Cleaning (SSPC-SP7), latest edition. Exposed surfaces of weathering steel shall be defined as those surfaces seen from the deck and from outside the structure. Stringers, floor beams, lower brace diagonals and the inside face of the truss below the deck, and bottom of the bottom chord do not need to be blasted.

When the plans specify painted steel, paint the bridge with a three-coat epoxy system from the department's approved products list as specified in standard spec 517.

D Measurement

The department will measure Prefabricated Steel Truss Pedestrian Bridge B-13-892 LRFD as a single unit of work for each structure bridge, 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
506.8006.S	Prefabricated Steel Truss Pedestrian Bridge B-13-892 LRFD	EACH

Payment is full compensation for designing, manufacturing, transporting and erecting the pedestrian bridge; furnishing bearing plates, pads, bolts, anchors bolts, and grout. The department will pay separately for painting under the Painting Epoxy System Steel Truss (structure) bid item.

stp-506-085 (20210708)

48. Concrete Staining R-13-362, Item 517.1010.S.01.

A Description

This special provision describes providing a two coat concrete stain on the exposed concrete surfaces of structures as the plans 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, consisting of a base coat and a pigmented sealer finish coat. Use the following products, or equal as approved by the department, as part of the two coat finish system:

Tri-Sheen Concrete Surfacer, Smooth by TK Products

Tri-Sheen Acrylic by TK Products

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

Safe-Cure & 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 stain shall be as given on the plan. Tint the base coat to match the finish coat; the two coats shall be compatible with each other.

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

C.4 Test Areas

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. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between the stones produced by the form liner if applicable. Do not apply stain to the structure until the department approves the test panels.

C.5 Surfaces to be Coated

Apply concrete stain to the surfaces according to the plan.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1010.S.01	Concrete Staining R-13-362	SF

Payment is full compensation for furnishing and applying the two coat system; for preparing the concrete surface; and for preparing the sample panels.

stp-517-110 (20140630)

49. Concrete Staining Multi-Color R-13-362, Item 517.1015.S.01.

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-13-362	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)

50. Architectural Surface Treatment R-13-363, Item 517.1050.S.01; Architectural Surface Treatment R-13-365, Item 517.1050.S.02; Architectural Surface Treatment R-13-366, Item 517.1050.S.03; Architectural Surface Treatment R-13-367, 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-13-363	SF
517.1050.S.02	Architectural Surface Treatment R-13-365	SF
517.1050.S.03	Architectural Surface Treatment R-13-366	SF
517.1050.S.04	Architectural Surface Treatment R-13-367	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)

51. Grouted Riprap Heavy.

Replace standard spec 606.3.5 (1) with the following:

If the plans specify using grouted riprap, lay the stone as specified above under standard spec 606.3.2 or 606.3.3. Fill approximately one third to one half of the void space between the stones with cement mortar. Leave the face surface of the stone exposed. Grouting shall occur as riprap courses are applied to make sure all courses of riprap received the same amount of grout.

52. Inlet Covers Type H; Inlet Covers, Type H-S.

Perform this work according to standard spec 611 and as hereinafter provided.

Provide inlet covers with the design as detailed in the plans.

53. Manhole Covers Type J.

A Description

Perform this work according to standard spec 611 and as hereinafter provided.

Provide castings according to standard spec 611 and Article 507 of the City Standard Specifications and as shown on the plans for manhole covers within the city of Madison as quantified under ID 5992-11-01 Category 0040 and ID 5992-11-02 Categories 0010 and 0020. Provide lids with logo per City Standard Specifications Standard Detail Drawing 5.7.16.

54. Adjusting Manhole Covers, Item 611.8110.

This special provision describes adjusting manhole covers conforming to standard spec 611 as modified in this special provision.

Supplement standard spec 611.3.7 with the following:

Set the manhole frames so that they comply with the surface requirements of standard spec 450.3.2.9. At the completion of the paving, a 6-foot straightedge shall be placed over the centerline of each manhole frame parallel to the direction of traffic. A measurement shall be made at each side of the frame. The two measurements shall be averaged. If this average is greater than 5/8 inches, reset the manhole frame to the correct plane and elevation. If this average is 5/8 inches or less but greater than 3/8 inches, the manhole frame shall be allowed to remain in place but shall be paid for at 50 percent of the contract unit price.

If the manhole frame is higher than the adjacent pavement, the two measurements shall be made at each end of the straightedge. These two measurements shall be averaged. The same criteria for acceptance and payment as above, shall apply.

stp-611-005 (20200629)

55. 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)

56. Pipe Grates, Item 611.9800.S.

A Description

This special provision describes providing pipe grates on the ends of pipes.

B Materials

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel pipe conforming to the requirements of standard spec 506.2.3.6.

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction

Repair pipes, rods, angles and brackets on which the galvanized coating has been damaged according to the requirements of AASHTO M36M.

D Measurement

The department will measure Pipe Grates in units of work, where one unit is one grate, 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
611.9800.S	Pipe Grates	EACH

Payment is full compensation for furnishing and installing all materials; and for drilling and connecting grates to pipes.

stp-611-010 (20030820)

57. Underdrains.

Supplement standard spec 612.5 as follows:

Payment for the Pipe Underdrain bid items includes connecting to existing or new storm sewer structures, including any holes required in the structure.

58. 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 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)

59. 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)

60. 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)

61. Seeding.

Add the following to standard spec spec 630.2.1.5.1.1:

Table 630-3 may be used for the mixtures provided in the table:

TABLE 630-3 (OPTIONAL SEED MIXTURES)

SPECIES COMMON NAME (Acceptable Varieties)	SPECIES BOTANICAL NAME	PURITY minimum %	GERMINATION minimum %	MIXTURE PROPORTIONS (in percent) Two options for each mix type							
				NO.10		NO.20		NO.30		NO.40	
				#1	#2	#1	#2	#1	#2	#1	#2
Kentucky Bluegrass (Low Maintenance)	Poa pratensis	98	85	40	42	6	6	10	13	35	35
* Red Fescue (Creeping)	Festuca rubra	97	85	10	13	5	7	15	15	10	15
Hard Fescue (Improved)	Festuca ovina var. duriuscula	97	85			24	22	25	25	20	20
Tall Fescue (Improved Turf Type)	Festuca arundinacea	98	85			40	40				
Salt Grass (Fult's or Salty)	Puccinella distans	98	85					15	15		
Redtop	Agrostis alba	92	85	5	5						
Perennial Ryegrass	Lolium perenne	96	85	25	30	25	25	25	32	25	30
White Clover	Triflium repens	95	90	10	10						
Chewings Fescue	Festuca rubra var. commutata	98	85	10				10		10	
Sheep's Fescue	Festuca ovina	97	85								

* A blend of fescue type will be permitted to achieve the specified Red Fescue (Creeping) percentage using any of the following varieties as substitutes:

Red Fescue (Creeping)
Hard Fescue (Improved)
Chewings Fescue
Sheep's Fescue

62. Landscape Planting Plant Establishment Period.

Revise standard specs 632.3.18.1(1) and 632.3.18.2(1) as follows:

The plant establishment period shall be one year and shall begin and end on the date of substantial landscape completion as determined by the engineer.

63. Landscape Planting Surveillance and Care Cycles.

If the care specialist fails to perform any of the required care cycles as specified in standard spec 632.3.19.1, the department will assess daily damages in the amount of $800 to cover the cost of performing the work with other forces. The department will assess these damages for each day the requirements of the care cycle remain incomplete, except when the engineer extends the required time period.

stp-632-005 (20070510)

64. Fastening Signs to Supports.

Supplement standard spec 637.3.3.3 as follows:

Fasten type II and type III signs to 2-inch pipe installations using single or double Morris ring sign brackets from Vulcan Signs, TAPCO (#318), or Decker Supply, or approved equal.

65. Pond Liner Clay, Item 640.1303.S.

A Description

This special provision describes furnishing and installing clay liner in areas shown on the plans.

B Materials

For each source, prior to excavating and hauling the clay liner to the project, submit the results of the laboratory source screening tests described in Table 1. Laboratory test results of the clay must meet or exceed the requirements before placing material.

Submit source screening test results to the engineer for review, two weeks prior to clay placement.

C Construction

In locations where riprap or topsoil is placed on top of the pond liner clay the pond liner clay shall be placed at a lower elevation to account for the placement of said items to maintain a minimum 2 foot thickness. The transition of the pond liner clay through these areas shall be smooth and the pond liner clay shall be continuous throughout the pond as shown on the plan. The pond liner clay shall not be disturbed after placement.

If dewatering is necessary to place the pond liner clay, the dewatering shall be maintained until the pond liner clay is completed and the pond is filled up to the normal water surface elevation with water for detention ponds.

C.1 Clay Liner

C.1.1 Subgrade

Compact the subgrade to the minimum density using standard spec 207.3.6.2 Standard Compaction, or as otherwise specified in the contract requirements.

C.1.2 Erosion Protection

Do not place the clay liner until after all adjacent site grading has been completed and only after silt fence has been installed completely around the area of clay liner placement.

C.1.3 Clay Placement

After the fine grading is complete, place and compact clay liner in compacted 6-inch lifts. Place each lift of clay liner in one continuous lift. See plans for clay liner construction limits. Measure the thickness of the clay, as shown in the plans, perpendicular to the surface.

Notify the engineer at least three days before starting construction of clay liner.

Reference	Number	Test Title	Requirements	Testing Frequency	
				Source Screening	Project Testing
AASHTO[1]	T99-01	Moisture –Density Relationships of Soils Using a 2.5-kg (5.5 lb) Rammer a 305 mm (12-in.) Drop (Standard Proctor)	NA	1/source	NA
AASHTO	T-88-00	Particle Size Analysis of Soils	P200[3] $\geq$ 50%	2/source	1/lift
AASHTO	T-89-02	Determining the Liquid Limit of Soils	LL[4] $\geq$ 25%	2/source	1/lift
AASHTO	T-90-00	Determining the Plastic Limit and Plasticity Index of Soils	PI[5] $\geq$ 12%	2/source	1/lift
AASHTO	T310-03	In-Place Density and Moisture Content of Soils and Soil-Aggregates by nuclear Methods (Shallow Depth)	DD[6] $\geq$ 95% of the MDD[7]	NA	100'x100' Grid/lift
ASTM[2]	D5084-03	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	K[8] $\leq 1 \times 10^{-7}$ cm/sec	1/source[9]	1/site[10]

Notes:

1. AASHTO = American Association of State Highway and Transportation Officials
2. ASTM = American Society of Testing and Materials
3. P200 = Percent by weight passing the #200 sieve (%)
4. LL = Liquid Limit (%)
5. PI = Plasticity Index (%)
6. DD = Dry Density (pcf)
7. MDD = Maximum Dry Density (pcf) as determined by the Standard Proctor Test
8. K = Hydraulic Conductivity (cm/sec)
9. The sample for the test shall be remolded at a minimum dry density of 95% of the maximum dry density as determined by the Standard Proctor test and at a moisture content required to achieve the required hydraulic conductivity, but with a minimum moisture content at or above the optimum moisture content as determined in the Standard Proctor test.
10. An undisturbed sample from a thinned walled sampler (Shelby tube)

Table 1

Compact the clay liner to a minimum of 95% Standard Proctor AASHTO T-99 Maximum Dry Density with footed compaction equipment having feet at least as long as the loose lift height. As needed, clay shall be disked or otherwise mechanically processed before compaction to break up clods and allow moisture content adjustment. Clod size shall be no greater than 4 inches. All compaction equipment utilized shall have a minimum static weight of 30,000 pounds. Use a smooth-drum vibratory roller for the final lift.

Provide all equipment necessary to adjust clay liner to the proper moisture content for compaction.

Make sufficient number of passes of the compaction equipment over each lift of clay to ensure complete remolding of the clay.

Do not proceed with placement of additional lifts until all required clay liner testing and documentation has been completed for the previous lift.

During placement of the clay liner the minimum moisture content shall be as defined by the testing performed in the source screening evaluation and with the following limits:

- No drier than the optimum moisture content as determined by the Standard Proctor test.

If the in-place clay liner fails to meet the requirements of Table 1, then remove and replace or rework any portion of the clay liner not meeting the project requirements until project specifications are met. There shall be no compensation for removing, replacing and reworking clay not meeting the requirements in Table 1.

C.1.4 Project Testing and Acceptance

Perform all project testing at the frequency shown in Table 1 except for project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter, which will be done by the department. Record clay liner thickness on a 100 foot x 100 foot grid pattern.

Provide the following:

- Access for on-site testing, inspection, and documentation.
- Machinery required to grade/blade density test locations.
- Machinery required to collect undisturbed clay samples (i.e., with Shelby tubes).
- Replace and recompact clay material removed for testing purposes.

Perform sampling, testing, and documentation for project testing in Table 1, 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 each grading site during all clay liner placement, compaction, and sampling/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.

Perform all project testing with a department approved laboratory.

C.1.5 Department Testing

The department will perform the project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.

D Measurement

The department will measure Pond Liner Clay in volume by the cubic yards, 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
640.1303.S	Pond Liner Clay	CY

Payment is full compensation for furnishing, placing and compacting the clay liner; and for performing all tests.

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

A Description

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

B Materials

Use Conduit Rigid Nonmetallic Schedule 40 2-Inch, 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 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 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 (20100709)

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

A Description

This special provision describes the 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 by the department's 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

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.1 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 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 ten 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 handling, packaging, labeling and scheduling disposal with the hazardous waste vendor.

The department will pay separately for the work under which the lamps, ballasts LED or Switches are removed from service.

stp-659-500 (20220107)

68. Temporary Traffic Signals for Intersections (Pleasant View Road and Blackhawk Road), Item 661.0200.01.

Append standard spec 661.2.2 with paragraphs (3), (4), and (5) as follows:

(3) Furnish all materials and equipment as required to operate and maintain a fully functioning temporary traffic signal vehicle detection system. The following methods of temporary traffic signal vehicle detection are allowed:

- Existing inductive loops
- Video detection
- Microwave detection
- Combination of options listed above

Furnish materials and equipment capable of providing the detection zones and functionality as shown on the plans. All methods shall provide for true presence detection. Detection equipment placement may require multiple installations and adjustments, which shall be considered incidental to the temporary traffic signal bid item.

(4) Furnish incidental materials required to install and maintain the temporary signal during all stages as shown on the plans. Incidental materials include, but are not limited to:

- Sheeting for obscuring (bagging) unused and/or existing signal heads.
- R10-3E signs for all signalized pedestrian crossings. Furnish with arrow direction as appropriate.
- Signal head visibility limiting devices (if needed).

(5) Furnish street lighting equipment including arms, LED C luminaires, mounting hardware, wiring and incidentals necessary to provide lighting as shown on the temporary traffic signal plans. Aerial cables shall be rated to maintain acceptable voltage drop and span tension.

(6) Use the existing traffic signal controller, cabinet, and blank out signs at the USH 14 and Pleasant View Road intersection for the temporary traffic signals. After removing the temporary traffic signals, deliver the traffic signal controller, cabinet, and blank out signs to the department as part of the bid item Removing Traffic Signals Pleasant View Road and USH 14.

Append standard spec 661.3.1 with paragraph (4) as follows:

(4) Provide equipment specifications and other technical documentation to the engineer for approval 30 calendar days prior to furnishing any detection equipment. Include documentation depicting the operational characteristics of the detection method(s) proposed for each intersection. Provide verification of the detection method's ability to function correctly under the proposed site conditions, including mounting methods and coordination with temporary pavement operations.

Install, adjust, relocate, or remove detection equipment and/or detection zones for each stage of traffic operations shown in the plans, or as modified by changes in field conditions, and as directed by the engineer.

Damage to new or temporary pavement for temporary inductive loops will not be allowed.

69. Temporary Traffic Signals for Intersection (USH 14 and Pleasant View Road), Item 661.0200.02.

A Description

This work shall be according to the requirements of standard specification 661, except as hereinafter amended.

Replace standard spec 661.2.1 (1) as follows:

(1) Furnish control cabinet and control equipment. The department will supply, maintain and install a TS2 controller, video detection system and Cellular modem. The cabinet must be equipped with at least three open non- GFI receptacles, SDLC connector and open shelf space to be used by the video detection processor. The video detection will be installed and maintained by the department and placed on the contractor installed poles and span wires. Provide a cabinet with a Corbin #2 door lock and an access door that allows placing the controller in emergency flash. Provide keys to the access door to the engineer and law enforcement agencies as required. Supply a cabinet complete with programmed MMU, load switches, relays, etc. capable of executing the sequence of operations supplied in this contract for this temporary traffic signal. Test traffic signal control cabinets before installation. The department will be responsible for all signal timing changes.

Replace standard spec 661.2.1 (2) as follows:

(2) Furnish a NEMA monitor for the controller. Test the monitor with an automated programmed testing system. Test annually if used for more than one year. This test verifies that the monitor complies with the intersection requirements. Attach a copy of the monitor test report to the monitor and provide a copy to the department.

Delete standard spec 661.2.1 (5)

70. Seismograph 5992-11-01, 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. This special provision also describes conducting monitoring and providing results to PPD Laboratories.

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.

Prior to construction near PPD Laboratories located at 8551 Research Way, Middleton, Wisconsin conduct a pilot test of equipment and vibration-inducing construction activities that may impact PPD Laboratories use of their analytical balances used for weighing materials in their laboratory. Coordinate the pilot test and provide data recorded to Darren Jantzi at PPD Laboratories, 8551 Research Way, Suite 90, Middleton, Wisconsin, phone (608) 203-4025.

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. A seismograph shall also be located at the crest of the nearest point of blasting near the existing rock face wall on PPD Laboratories property. The blast location and seismograph location shall be recorded for each blast. 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 5992-11-01	EACH

Payment is full compensation for furnishing and operating seismographs, operators, and for producing documentation reports; and for performing a pilot test of vibration-inducing construction activities.4

71. Field Stone Riprap D50,1.5-FT, Item SPV.0035.02; Field Stone Riprap D50, 1-FT, Item SPV.0035.03.

A Description

This work consists of preparing the field stone riprap, furnishing, and placing the field stone riprap as shown on the plans, and as hereinafter provided.

B Materials

Field Stone Riprap shall conform to the standard detail drawings, details in the drawings, and as follows.

Field Stone Riprap size shall meet the sizing requirements detailed on the restoration plan. The material shall be comprised of rounded durable, glacial till that has been sorted for size and is not susceptible to freeze-thaw degradation. The stone shall not be uniform in color, type, or geometry. Crushed, blasted, or “made” stone will not be permitted.

Field Stone Riprap shall be sound, hard, dense, resistant to the action of air and water, and free from seams, cracks, or other structural defects.

Prior to placement the engineer shall review sourcing information provided. The engineer may choose to evaluate the material at the source prior to acceptance.

C Construction

Field Stone Riprap shall be underlain with Geotextile Type HR. The filter fabric shall be placed in a manner that prevents excess material from extending beyond the stone bed.

Riprap shall be provided in areas as designated on the drawings.

Stone placed above the water line shall be placed by hand. It shall be laid with close, broken joints and shall be firmly bedded into the slope and against the adjoining stones. The stones shall be laid perpendicular to the slope with ends in contact.

The riprap shall be thoroughly compacted as construction progresses, and the finished surface shall present an even, tight surface.

The large stone shall be placed in the lower courses. Interstices between stones shall be chinked with spalls firmly rammed into place.

Unless otherwise shown or specified, riprap shall be at least 24 inches in thickness, measured perpendicular to the slope.

D Measurement

The department will measure Field Stone Riprap by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.02	Field Stone Riprap D50, 1.5-FT	CY
SPV.0035.03	Field Stone Riprap D50, 1-FT	CY

Payment is full compensation for preparing the bed, providing and placing Field Stone Riprap, and restoring adjacent work.

The department will pay for excavation in excess of the approximate volume of earth occupied by the field stone riprap under the Excavation Common bid items as specified under standard spec 205.5.

The department will pay separately for Geotextile Type HR.

72. Partially Grouted Field Stone Riprap D50, 2-FT, Item SPV.0035.04; Partially Grouted Field Stone Riprap D50,1.5-FT, Item SPV.0035.05.

A Description

This work consists of preparing the partially grouted field stone riprap, furnishing, and placing the field stone riprap as shown on the plans, and as hereinafter provided.

B Materials

Partially Grouted Field Stone Riprap shall conform to the standard detail drawings, details in the drawings, and as follows.

Partially Grouted Field Stone Riprap size shall meet the sizing requirements detailed on the restoration plan. The material shall be comprised of rounded durable, glacial till that has been sorted for size and is not susceptible to freeze-thaw degradation. The stone shall not be uniform in color, type, or geometry. Crushed, blasted, or “made” stone will not be permitted.

Partially Grouted Field Stone Riprap shall be sound, hard, dense, resistant to the action of air and water, and free from seams, cracks, or other structural defects.

Prior to placement the engineer shall review sourcing information provided. The engineer may choose to evaluate the material at the source prior to acceptance.

Riprap grout shall conform to standard spec 606.2.2.

C Construction

Partially Grouted Field Stone Riprap shall be underlain with Geotextile Type HR. The filter fabric shall be placed in a manner that prevents excess material from extending beyond the stone bed.

Riprap shall be provided in areas as designated on the drawings.

Stone placed above the water line shall be placed by hand. It shall be laid with close, broken joints and shall be firmly bedded into the slope and against the adjoining stones. The stones shall be laid perpendicular to the slope with ends in contact.

The riprap shall be thoroughly compacted as construction progresses, and the finished surface shall present an even, tight surface.

The large stone shall be placed in the lower courses. Fill approximately one third to one half of the void space in the lower course of field stone riprap with grout. Interstices between stones shall be chinked with spalls firmly rammed into place. Grout shall not be visible on the on the top course of stone.

Unless otherwise shown or specified, riprap shall be at least 24 inches in thickness, measured perpendicular to the slope.

D Measurement

The department will measure Partially Grouted Field Stone Riprap D50 (depth) by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.04	Partially Grouted Field Stone Riprap D50, 2-FT	CY
SPV.0035.05	Partially Grouted Field Stone Riprap D50, 1.5-FT	CY

Payment is full compensation for preparing the bed, providing and placing riprap, providing and placing riprap grout, and restoring adjacent work.

The department will pay for excavation in excess of the approximate volume of earth occupied by the field stone riprap under the Excavation Common bid items as specified under standard spec 205.5.

The department will pay separately for Geotextile Type HR.

73. Sanitary Sewer Rock Excavation, Item SPV.0035.06; Water Main Rock Excavation, Item SPV.0035.07.

A Description

Rock excavation shall include all hard, solid rock ledges, bedded deposits and unstratified masses and all conglomerate deposits or any other material so firmly cemented that in the opinion of engineer it is not practical to excavate and remove same with a 225-net flywheel horsepower trench backhoe, or equal, except after continuous drilling and blasting. Rock excavation shall also include rock boulders having a volume of 2 cubic yards or more. Soft or disintegrated rock which can be removed with a pick, loose, shaken or previously broken rock or rock which may fall into the excavation from outside the limits of excavation will not be classified as rock excavation.

B (Vacant)

C Construction

When rock is encountered, it shall be stripped of earth and engineer notified and given proper time to observe the rock before removal. Any rock removed which has not been measured by engineer will not be classified as rock excavation.

The depth of rock excavation in a trench shall be 6 inches minimum below the pipe.

All rock excavated from the trench shall be classified as undesirable backfill material and shall be disposed of off the site.

D Measurement

The department will measure Sanitary Sewer Rock Excavation and Water Main Rock Excavation by the cubic yard unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.06	Sanitary Sewer Rock Excavation	CY
SPV.0035.07	Water Main Rock Excavation	CY

Payment is full compensation for excavation; for hauling; and for disposal of resulting material.

74. Sign Post Base for Concrete Installation, Item SPV.0060.03.

A Description

This special provision describes constructing and installing the sign post bases in concrete sidewalk or pavement at locations shown on the plans and as hereinafter provided.

B Materials

The 2-inch by 16-inch sign post base shall be an ASTMA Designation 120 A53 Fed Spec P404, Schedule 40 untreated black pipe 2-inch diameter, with a galvanized rigid conduit coupling installed.

Waterproof anchoring cement for concrete shall be Unitex, Thorogrip 29/64 or equivalent.

C Construction

The sign post base shall consist of a 2-inch by 16-inch schedule 40 pipe with attached 2-inch rigid conduit galvanized coupling according to the details in the plan. Weld the coupling and pipe over 100 percent of the circumference.

Set the signpost bases at the locations shown on the plans. The center of the finished installation shall be 5 feet 0 inches (2 feet 6 inches for Advanced Street Name Sign Special installations) from the face of the adjacent curb or from the edge of paved shoulder. Upon request and reasonable notice from the contractor, the engineer will establish and stake the location for the sign post bases. The City of Madison Traffic Engineering Division Staff will verify all signpost base locations.

Box out all installations in hard surfaced areas (concrete) with a round PVC pipe with a minimum diameter of 3-inches or installed by drilling or core drilling a 3-inch hole all the way through the concrete to the base material. If drilling in architectural concrete pavement, cover the surface prior to drilling to protect the surface from drilling slurry. Coordinate all box out locations. With a temporary pipe 4 to 5 feet long, hand-tighten it into the insert. Drive the insert into the base material at a level/plumb position until the insert is flush with the top of the concrete. Shim insert to a level/plumb position with lag bolts or p.k. nails. All shims must be set below the concrete/insert. Remove temporary pipe, replace with permanent pipe, and tighten into insert with large pipe wrench until insert turns. Reset shims or add shims until pipe no longer turns. Retighten pipe and recheck level/plumb/top of concrete with insert. Patch concrete with a waterproof anchoring cement for concrete. Mix patch to a liquid consistency, not a paste. Pour patch until it is flush with the top of the insert. Recheck level/plumb/top of concrete with insert immediately due to fast setting time of cement. Additional cement may be required as it settles. Completed installation shall be level/plumb, solid, and able to support required sign post and signs. Patch shall be flush with adjacent concrete without exposed shims.

Coat the threads of the pipe and coupling in the base with graphite grease prior to assembly. Install the base such that the installed sign post will be plumb. Provide a one-year warranty that the signpost base installation shall remain plumb.

Remove and dispose of all excess excavation, surplus material and debris resulting from operations and satisfactorily repair and restore other work damaged by operations.

D Measurement

The department will measure Sign Post Base for Concrete Installation as each individual sign post base for concrete installation, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Sign Post Base for Concrete Installation	EACH

Payment is full compensation for furnishing all materials; for the manufacture of the sign post base; for hauling, handling and installing the sign post base, including drilling holes in concrete; and anchoring cement.

75. Precast Sign Post Base, Item SPV.0060.04.

A Description

This special provision describes constructing and installing precast sign post bases at locations shown on the plans and as hereinafter provided.

B Materials

All materials furnished for the work shall meet the requirements for the class of materials named.

Specific reference is made to the following sections of the standard specifications:

Concrete Masonry	section 501
Steel Reinforcement	section 505

Concrete Masonry shall be of a 3,200-psi minimum strength in 28 days. The 2-inch x 24-inch +1/3-inch insert shall be an ASTMA Designation 120 A53 Fed Spec P404, Schedule 40 untreated black pipe 2-inch diameter, with a galvanized rigid conduit coupling installed.

C Construction

Form the 24-inch by 11-inch precast base according to the details in the plan. Weld the coupling and pipe over 50 percent of the circumference. Center the insert in the base and plumb with the vertical axis of the base, and place so that the coupling is flush 1/8 inch with the top of the troweled surface of the base. The bottom of the insert extends a minimum of 1/8-inch below the base and shall remain open to permit drainage. Weld 3/8-inch by 8-inch reinforcing bar to the insert 8 inches from the top of the base and 8 inches from the bottom of the base to prevent the insert from rotating within the concrete base.

Set the signpost bases at the locations shown on the plans. The center of the finished installation shall be 2 feet 6 inches from the face of the adjacent curb.

Upon request and reasonable notice from the contractor, the engineer will establish and stake the location for the sign post bases. The City of Madison Traffic Engineering Division Staff will verify all signpost base locations.

Coat the threads of the pipe and coupling in the base with graphite grease prior to assembly. Install the base and pipe as a unit, level with the finished grade of the surrounding surface with the pipe plumb. Tamp the material used for backfilling around the base in 6-inch layers to ensure the installation will remain plumb. Provide a one-year warranty that the signpost base installation shall remain plumb.

Remove and dispose of all excess excavation, surplus material and debris resulting from operations and satisfactorily repair and restore other work damaged by operations.

D Measurement

The department will measure Precast Sign Post Base as each individual precast sign post base, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Precast Sign Post Base	EACH

Payment is full compensation for furnishing all materials; for the manufacture of the sign post base; for hauling, handling and installing the sign post base, including backfill.

76. Utility Line Opening (ULO), Item SPV.0060.05.

A Description

Excavate and uncover utilities for the purposes of determining elevation and potential conflicts, as shown on the plans or as directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction

The excavation will be done in such a manner that the utility in question is not damaged and the safety of the workers is not compromised.

The utility line openings will be performed as soon as possible and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. Utility line openings will include a trench up to 5 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

Coordinate all utility line openings with the engineer. Do not perform ULOs without engineer's approval. Notify the utility engineers or their agents of this work a minimum of three days prior to the work so they may be present when the work is completed. Verify the need for performing ULOs with the engineer since some of the utilities may have been relocated prior to the start of construction.

Replace pavement open to traffic within 24 hours of the excavation.

D Measurement

The department will measure Utility Line Opening (ULO) by the unit, acceptably completed. Where utilities are within 5 feet of each other at a potential conflict location, only one utility line opening will be measured.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Utility Line Opening (ULO)	EACH

Utility Line Opening, measured as provided above, will be paid for at the contract unit price each, which will be full compensation for the excavation required to expose the utility line, backfilling with existing material removed from the excavation, compacting the backfill material, restoring the site, and cleanup.

77. Storm Sewer Tap, Item SPV.0060.06.

A Description

This special provision describes tapping various sized storm sewer pipes or culverts into existing structures, including manholes and inlets, or other pipes as detailed on the plans, using Grade A concrete. However, water levels fluctuate in the existing pipes or box culvert and contractor may encounter water levels above flow line of the proposed storm sewer pipe. If this is the case, also comply with standard spec 502.3.5.3. The tapped pipe shall be left flush with the interior wall of the existing pipe. Tuck-point and seal the tap inside and outside using approved mortar as described in the article, "General Provisions for Storm Sewer."

B (Vacant)

C Construction

The work under these items shall be according to the provisions of standard spec 611, as shown on the plans and as provided herein.

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.0060.06	Storm Sewer Tap	EACH

Payment is full compensation for tapping the hole; connection of the pipe (pipe paid separately); furnishing and placing concrete.

78. Street Light Removal, Item SPV.0060.07.

A Description

This special provision describes removing and salvaging a base mounted light pole, direct bury light pole, transformer bases, arm, and luminaire.

B (Vacant)

C Construction

Contact Gretchen Aviles Pineiro (608) 266-4899 at least seven days prior to removing any streetlights on the City of Madison lighting systems. Arrange a meeting to document the existing condition of all street lighting materials that will be affected by construction activities.

The City of Madison will provide the following information:

1. Identify all items to be salvaged or disposed.
2. Identify existing feed-point locations and circuit breakers.

When removing existing streetlights, carefully remove and stockpile all equipment at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. Protect luminaires from moisture. Either reinstall lights as the plans show or make available for City of Madison to pick up and salvage. Properly dispose of any equipment that the city does not salvage.

All associated wire and exposed conduit shall be removed. Buried conduit shall be abandoned in place and capped.

Replace any equipment damaged in the removal process with equipment that is of greater or equal quality than the damaged piece.

D Measurement

The department will measure Street Light Removal as each individual removing streetlight, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Street Light Removal	EACH

Payment is full compensation for removals, stockpiling, and disposal as required above.

79. Locate and Reference Property Corners, Item SPV.0060.08.

A Description

This work consists of locating and referencing existing property corners within or adjacent to temporary limited easements. Locate and provide adequate reference ties for existing property corners which may be disturbed during construction such that the original monument position may be re-established upon completion of construction.

B (Vacant)

C Construction

Approve the methods with the engineer prior to beginning the work. Use a degree of accuracy for the survey work consistent with A-E 7.06 of the Wisconsin Administrative Code.

D Measurement

The department will measure Locate and Reference Property Corners as each individual locate and reference property corners, 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.0060.08	Locate and Reference Property Corners	EACH

Payment is full compensation for furnishing all survey work necessary to locate and reference the landmark, and for resetting damaged monumentation.

All survey notes and computations used in referencing property corners shall be given to the engineer within 21 days of completing work under the above item and must be received before final payment for the work will be made.

80. Reset Property Corners, Item SPV.0060.09.

A Description

This work consists of the setting of property corners that have been damaged or destroyed during construction operations which were unavoidable. Note that this item does not apply to items damaged due to negligence or relieve the contractor of other responsibilities as outlined in standard spec 107.11.

B Material

Match the original monumentation requirements for Reset Property Corners to meet the minimum requirements below:

Round iron bars at least 24 inches (610 mm) long and weighing not less than 1.5 pounds per linear foot (2.23 kg/m).”

C Construction

When drive-in monuments are to be used, drive them into the ground with the top flush with the surface. In unstable soils the increase the depth as directed by the engineer to obtain a suitable foundation for the monument. No additional compensation will be made for the increased depth of monument

D Measurement

The department will measure Reset Property Corners as each individual reset property corners, 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.0060.09	Reset Property Corners	EACH

Payment is full compensation for furnishing, placing, and adjusting property corners.

81. Clay Anti-Seepage Collar, Item SPV.0060.11; Clay Anti-Seepage Collar Twin 48-Inch SSPRC, Item SPV.0060.12.

A Description

This special provision describes furnishing and installing low permeable clay around reinforced concrete storm sewer pipe at the locations shown on the plans.

B Material

For each source, prior to excavating and hauling the low permeable clay to the project, submit the results of the laboratory tests described in Table 1. The laboratory testing shall document that each clay type from the source meets or exceeds the requirements.

The sample for the hydraulic conductivity test shall be remolded clay at a minimum dry density of 95% of the maximum dry density as determined by the Standard Proctor test ASTM D698 and at a moisture content required to achieve the required hydraulic conductivity, but with a minimum moisture content at or above the optimum moisture content as determined in the Standard Proctor test ASTM D698. Submit the test results to the engineer for review, two weeks prior to construction.

Table 1

Reference	Number	Test Title	Requirements	Testing Frequency	
				Source Screening	Project Testing
AASHTO1	T99-01	Moisture –Density Relationships of Soils Using a 2.5-kg (5.5 lb) Rammer a 305 mm (12-in.) Drop (Standard Proctor)	NA	1/source	NA
AASHTO	T-88-00	Particle Size Analysis of Soils	P200[3] ≥ 50%	2/source	1/lift
AASHTO	T-89-02	Determining the Liquid Limit of Soils	LL[4] ≥ 25%	2/source	1/lift
AASHTO	T-90-00	Determining the Plastic Limit and Plasticity Index of Soils	PI[5] ≥ 12%	2/source	1/lift
AASHTO	T310-03	In-Place Density and Moisture Content of Soils and Soil-Aggregates by nuclear Methods (Shallow Depth)	DD[6] ≥ 95% of the MDD[7]	NA	1/lift
ASTM[2]	D5084-03	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	K[8] ≤ 1 x 10^{-7} cm/sec	1/source[9]	1/site[10]

Notes:

1. AASHTO = American Association of State Highway and Transportation Officials
2. ASTM = American Society of Testing and Materials
3. P200 = Percent by weight passing the #200 sieve (%)
4. LL = Liquid Limit (%)
5. PI = Plasticity Index (%)
6. DD = Dry Density (pcf)
7. MDD = Maximum Dry Density (pcf) as determined by the Standard Proctor Test
8. K = Hydraulic Conductivity (cm/sec)
9. The sample for the test shall be remolded at a minimum dry density of 95% of the maximum dry density as determined by the Standard Proctor test and at a moisture content required to achieve the required hydraulic conductivity, but with a minimum moisture content at or above the optimum moisture content as determined in the Standard Proctor test.
10. An undisturbed sample from a thinned walled sampler (Shelby tube)

C Construction

C.1.1 Subgrade

Compact the collar to a minimum density as defined in standard spec 207.3.6.3 Standard Compaction or as otherwise specified in the contract requirements.

C.1.2 Placement

Place and compact low permeable clay in 6-inch lifts. Place each lift of low permeable clay in one continuous lift. The thickness of the low permeable clay shown on the plans should be measured perpendicular to the surface.

Extend the clay collar a minimum of four feet along the length of pipe, centered on the joint, and construct the clay collar according to the construction detail.

Compact the low permeable clay to a minimum of 95% Standard Proctor ASTM D698 Maximum Dry Density. Break up clods greater than 4-inches in diameter prior to compaction. Provide all equipment necessary to adjust low permeable clay to the proper moisture content for compaction. Do not proceed with placement of additional lifts until all required low permeable clay testing and documentation has been completed for the previous lift. During placement of the low permeable clay the minimum moisture content shall be as defined by the testing performed in the source evaluation and with the following limits:

- No drier than the optimum moisture content as determined by the Standard Proctor test ASTM D698.

Low permeable clay not meeting the above requirements will be removed as directed by the engineer and removing, replacing, and/or reworking low permeable clay not meeting the above requirements will be completed at no cost to the department.

D Measurement

The department will measure Clay Anti-Seepage Collar and Clay Anti-Seepage Collar Twin 48-Inch SSPRC as each individual clay anti-seepage collar, 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.0060.11	Clay Anti-Seepage Collar	EACH
SPV.0060.12	Clay Anti-Seepage Collar Twin 48-Inch SSPRC	EACH

Payment is full compensation for testing/sampling furnishing, hauling and placing of all materials; and for excavation, backfilling and disposing of excess material.

82. Concrete Cutoff Wall, Item SPV.0060.13.

A Description

Perform work according to the applicable provisions of standard spec 504 and as detailed in the plans.

B Materials

Provide concrete according to the applicable provisions of standard spec 504 and as detailed in the plans. Provide high strength galvanized steel adhesive anchors and washers according to the applicable provisions of standard spec 502.2.12 and as detailed in the plans.

C Construction

Drill bolt holes in the locations shown on the plans after the concrete in the concrete cutoff wall is cured and use adhesive anchors to secure the endwall to the cutoff wall. Maintain existing drainage and provide any dewatering necessary for the work.

Concrete cutoff wall shall be underlain by 2-foot thick Pond Liner Clay as shown in the plans.

D Measurement

The department will measure Concrete Cutoff Wall as each individual concrete cutoff wall, 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.0060.13	Concrete Cutoff Wall	Each

Payment is full compensation for furnishing all excavation and preparation; for providing all equipment and materials, including concrete, reinforcing steel, and adhesive anchors; for placing, finishing, protecting, and curing; for maintaining drainage and dewatering; for disposing of surplus excavation material; and for restoring the work site.

83. Pyramidal Inlet Grate 8X18, Item SPV.0060.14.

A Description

This special provision describes furnishing and installing pyramidal inlet grates at locations as detailed in the plans and as hereinafter provided.

B Materials

Fabricate pyramidal inlet grates from schedule 40 steel pipe. Provide ASTM A36 steel clip angles as shown on plans.

Provide Type 304 stainless steel adhesive anchors according to standard spec 502.2.12.

Provide fully welded construction of pyramidal inlet grate assembly according to the American Welding Society Code for procedures, appearance, and quality of welds.

Hot dip galvanize pyramidal inlet grate assembly after fabrication according to ASTM Specification A123.

C Construction

Submit a manufacturer’s certification of compliance to engineer, for all metal fabrications, and provide shop drawings for the pyramidal inlet grate assembly prior to fabrication.

Protect materials from damage to the galvanized coating during transportation, storage, and erection.

Repair pipes and angles on which the galvanized coating has been damaged according to standard spec 641.3.3 (7).

D Measurement

The department will measure Pyramidal Inlet Grate (size) as each individual pyramidal inlet grate, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Pyramidal Inlet Grate 8X18	EACH

Payment is full compensation for providing certification and shop drawings; for furnishing and fabricating; for furnishing adhesive anchors and installing; and for protection and repairs.

84. Inlet PV536, Item SPV.0060.15.

A Description

This special provision describes modifying an existing box culvert and constructing an inlet over the existing box culvert.

B Materials

Furnish materials conforming to standard spec 611 and plan details.

C Construction

Remove portions of existing box culvert as shown on the plan details and according to standard spec 203. Provide shop drawings with details of the reinforcing steel to the engineer. Do not place reinforcing until engineer has reviewed the reinforcing shop drawing.

Construct concrete curb with notch to receive grate for Inlet Cover Type H. Set slope of curb and grate to match adjacent gutter pan. Construct according to standard spec 611 and plan details.

Maintain existing drainage patterns, provide any dewatering and provide materials necessary for temporary connections to existing storm sewer.

D Measurement

The department will measure Inlet PV536 as each individual inlet, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.15	Inlet PV536	EACH

Payment is full compensation for providing all materials, including all concrete masonry, steel reinforcing, adhesive anchors, inlet cover grate (no frame required); for all excavating, removing concrete box culvert, backfilling, for any dewatering; for maintaining existing drainage; for cleaning out debris in the existing box culvert, and restoring the work site.

85. Inlet PV3581, Item SPV.0060.16.

A Description

This special provision describes providing a stormwater treatment structure according to standard spec 611 and 716 and plan details.

B Materials

Furnish concrete, reinforcement, and backfill according to standard spec 611.

Furnish hinged access hatch as shown on the plan details. Access hatch shall be model R-6663-JS with 24 x 36-inch opening and spring assist lid manufactured by Neenah Foundry, or equal.

Furnish grade 304 stainless steel angle vane as shown on the plan details.

Stainless steel screens shall be “Coanda-Effect” tilted wedge-wire screens manufactured specifically for use as a stormwater treatment device. Provide type 304 stainless steel screen, weir crest plate, supporting framing and fasteners. Screens shall have self-supporting framing with wedge shaped wires tilted 5 degrees from a plane perpendicular to the supporting bars, with all wires welded to framing. The rectangular bar supports shall be sized to accommodate the full hydraulic loading assuming fully clogged screens with water level at or above the overflow wall. Screens shall be manufactured in a flat condition. Acceptable manufacturers include Hydroscreen, LLC, Coanda, Inc., Elgin Separation Solutions, or equal.

C Construction

Construct inlet treatment structure according to standard spec 611 and as shown on the plan details. Provide shop drawings for the stainless steel and access hatches. Install screen according to manufacturer’s installation instructions.

Provide dewatering if needed.

D Measurement

The department will measure Inlet PV3581 as each individual inlet, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.16	Inlet PV3581	EACH

Payment is full compensation for providing all materials, including all concrete masonry, steel reinforcing, adhesive anchors, stainless steel screens, stainless steel angles, and access hatches; for excavating,

backfilling, dewatering; for maintaining existing drainage; and for cleaning out and restoring the site. The department will pay for inlet covers including frames and grates separately.

86. Luminaires Single Arm LED-City of Madison, Item SPV.0060.17; Luminaires Dual Arm LED-City of Madison, Item SPV.0060.18.

A Description

This item number includes furnishing and installing Cooper fixture luminaires.

B Materials

B.1 Material Qualifications

Provide an integral LED lighting unit. All parts not specifically mentioned, which are necessary and are regularly furnished in order to provide a complete unit, shall be furnished by the successful bidder at the bid price and shall conform in quality of material and workmanship to that usually provided by the engineering practice indicated in this specification.

Furnish luminaires of the “cutoff” type conforming to all general aspects for luminaires as specified under standard spec 659 except as modified herein. All equipment to be furnished shall be new, unused, and the latest model being produced. The Luminaire Single Arm LED-City of Madison shall be a McGraw-Edison, model number TLM-E05-LED-E1-SL3-8030-AP-DIM. The Luminaires Dual Arm LED-City of Madison shall be a McGraw-Edison, model number TLM-E05-LED-E1-SL3-8030-AP-DIM, arm mount 2 at 180 degrees.

B.2 Manufacturer’s Warranty

The manufacturer shall warrant those goods provided for this project will conform to applicable specifications, drawings, designs, samples, descriptions and will be free from defects in material and workmanship and will be fit for the particular purpose intended by the city.

This warranty shall remain in effect for one year. The warranty period commences on the date the luminaires are installed.

Under this warranty, the manufacturer agrees to replace within a reasonable time, any part, feature or product found to be defective during the warranty period at no cost to the City of Madison.

New lighting units will not be accepted before luminaires and lamps have operated without failure for a period of at least ten consecutive nights.

C Construction

Install LED Luminaires and Mounting Bracket (Type) according to the pertinent provisions of standard spec 659 and as the manufacturer directs.

D Measurement

The department will measure Luminaires (Arm Type) LED-City of Madison as each individual Luminaires (Arm Type) LED-City of Madison, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.17	Luminaires Single Arm LED-City of Madison	EACH
SPV.0060.18	Luminaires Dual Arm LED-City of Madison	EACH

Payment is full compensation for furnishing all materials, including all luminaires and side of pole mounting hardware.

87. Luminaires Single Arm LED-City of Middleton, Item SPV.0060.19; Luminaires Dual Arm LED-City of Middleton, Item SPV.0060.20.

A Description

This special provision describes furnishing and installing LED luminaires together with hardware and fittings according to standard spec 659 and as shown in the plans.

B Materials

Provide Luminaires Single Arm LED-City of Middleton as manufactured McGraw-Edison, model number AER-VLED-II-64LED-525mA-WW(3000K)-240-RAL-9005-T-PC+V.

Provide Luminaires Dual Arm LED-City of Middleton as manufactured by McGraw-Edison, model number AER-VLED-II-64LED-525mA-WW(3000K)-240-RAL-9005-T-PC+V, arm mount 2 at 180 degrees.

C Construction

Furnish and install Luminaires (Arm Type) LED-City of Middleton together with hardware and fittings according to standard spec 659.3.3 and as shown on the plans.

D Measurement

The department will measure Luminaires (Arm Type) LED-City of Middleton as each individual Luminaires (Arm Type) LED-City of Middleton, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.19	Luminaires Single Arm LED-City of Middleton	EACH
SPV.0060.20	Luminaires Dual Arm LED-City of Middleton	EACH

Payment is full compensation for luminaires; for luminaire mounting boxes as required; junction box fusing; for hardware and fittings; and for required coordination.

88. Lighting Control Cabinet-City of Madison, Item SPV.0060.21.

A Description

This special provision describes furnishing and installing a lighting control cabinet with all electrical components and wiring assembled.

B Materials

Furnish Grade A, A-WR, A-FA, or A-IP concrete masonry conforming to the requirements of standard spec 501. Conduit cast within the bases shall be Schedule 40 polyvinylchloride (PVC)

B.1 Contactors

Furnish an open type, multi-pole, 30-amp, 600V electrically held contactor with 120V control coil as required for each proposed circuit.

B.2 Photocell

Furnish a button type photocell and install as shown on the detail. Apply silicone caulk to maintain the watertight integrity of the enclosure. The photocell shall be rated for 120V, 1500W with 30 to 60 second delay between “on-off” operations.

B.3 Panel

Furnish a 120/240-volt, 100A main lugs only, single-phase, 20-circuit panel board in a 14-inch (approximate) wide NEMA 1 enclosure. Provide copper ground and split neutral bus bars in addition to copper bus bars. Provide bolt-on, thermal-magnetic circuit breakers that clearly indicate ON, OFF, or TRIPPED position in the panel.

B.4 Selector Switches

Furnish “Hand-Off-Auto” switches to control each circuit separately. Provide a “Hand-Off-Auto” legend plate for each switch. Mount the switches adjacent to the respective contactor.

B.5 Cabinet Enclosure

Provide a NEMA 3R enclosure made from .125-inch Type 5052-H32 aluminum. The doorframe shall be double flanged and all exterior seams shall be ground smooth. Door handle shall be 3/4-inch diameter stainless steel with three point latching system and hasp. Main door shall be sealed with a closed-cell neoprene gasket. Main door hinge shall be continuous 0.075-inch thick stainless steel with a 0.25-inch stainless steel hinge pin. Provide an aluminum-mounting panel at back (interior) of enclosure. Provide a weatherproof pad lock with 2 3/8-inch wide body, repinnable/replaceable cylinder, and five keys. There shall be no louvers or Corbin main door lock. Maintain applicable code working clearances between equipment mounted within the enclosure.

B.6 Surge Arrester

Furnish a surge suppressor to protect the panel board. The surge suppressor shall provide 6 modes of surge protection, meet UL1449 Second Edition with 32Ka per phase and 48KA system peak surge current, contain LED line indicators, and approximate dimensions of 4.54-inch by 2.58-inch by 0.22-inch. Connect the surge suppressor to the branch circuit breaker as indicated on the plans.

B.7 Field Wiring Termination Blocks

All connections from the field wiring to equipment in the lighting control cabinet shall be made through termination blocks. Provide quantity of channel mount, NEMA type single terminal blocks as indicated on plans that are capable of holding #12 to #1/0 wire with solderless box lugs, for power, neutral and grounding connections. Mount the terminal blocks on a mounting channel of appropriate length with end anchors and an end barrier. Each terminal block shall have a label indicating the appropriate circuit number, neutral (‘N’) or ground (‘G’) wire connected to block; handwritten numbers and letters are not acceptable means of identification. Make connections from the underground field wiring to the equipment in the lighting control cabinet through distribution blocks.

B.8 Convenience GFI Receptacle and Cabinet Light Fixture

Furnish a 20 Ampere,120 Volt commercial grade GFI duplex receptacle within a galvanized steel outlet box with cover. 150 Watt, 250 Volt commercial grade lamp holder with galvanized steel box and 60 watt incandescent bulb. Furnish switch to turn on cabinet light by opening the cabinet door.

B.9 Incidental Materials

Secure all wiring using screw attachment type straps; adhesive type shall not be allowed.

C Construction

Assemble the control cabinet as shown on the plans. Pretest the cabinet prior to shipment to the site. Mount all equipment to panel in enclosure. Train the cables in straight horizontal and vertical directions and be parallel next to and adjacent to other cables whenever possible. Mount the cabinet to the concrete base per the manufacturer’s requirements. The work under this bid item includes connection and termination to the feeder system wiring.

D Measurement

The department will measure Lighting Control Cabinet as each individual lighting control cabinet, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Lighting Control Cabinet-City of Madison	EACH

Payment is full compensation for furnishing and installing photo control, contactors, panel, distribution blocks, surge arrestor, enclosure, grounding, wiring and electrical components; mounting to the concrete base.

89. Poles 30-FT 11 Gauge, Simplex-City of Madison, Item SPV.0060.22.

A Description

This special provision describes furnishing and installing poles and arms according to standard spec 657, the details shown on the plans, and these special provisions.

B Materials

Provide round poles, with a base plate welded to the bottom end of the pole. All 30-foot poles are to be a single section, with an eight-inch diameter shaft at the base and 0.14-inch per foot taper.

Provide base plates that have a slotted opening for anchor bolts.

Certify that all 30-foot poles have been designated to withstand a 90-mile per hour sustained wind velocity and 117 mile per hour gust velocity with the bracket arm and luminaires in place.

Provide a 4" x 6 ½" galvanized handhole with contoured or flat cover plate joined to the reinforced handhole frame with two bolts. Locate the handhole at 90-degrees clockwise from the bracket arm side of poles as viewed when looking down from the top of the pole. The center of the handhole should be 14 inches from the bottom of the pole. Provide a solid metal bracket, with a drilled and tapped hole for securing cover plate bolts. Clips for holding these bolts are not acceptable. The machine bolts shall be a slotted hex-head style.

Fabricate the pole shaft from the herein specified manufacturer's best grade, hot rolled basic option hearth, or basic oxygen process steel. Provide a shaft with only one longitudinal, electrically welded joint, with the strength rated at not less than 100 percent of the yield strength of the steel and shall have no intermediate horizontal joints or welds. Only one length of steel shall be used, and form it into a continuously tapered shaft, having a taper of approximately 0.14-inches per foot. Provide smooth welds allowing the specified taper to be constant. Provide a pole that is within ¼" in 10 feet of being straight and centered on its longitudinal axis.

Provide a grounding nut or nut holder for accommodating a ½ inch x 13 UNC threaded bolt or stud on the inside of the shaft immediately opposite the center of the handhole. Make the nut completely free of any metal residue that would prevent a bolt from easily screwing entirely into the nut.

Provide all poles holding LED fixtures with mounting and wire raceway holes placed before being hot-dipped galvanized. Coordinate mounting needs with the LED luminaires selected for the project prior to ordering poles.

Furnish and install a pole-top cover and four nut covers for each pole. Adjust the size of the pole top cover to account for poles cut to shorter lengths.

Provide each steel pole with a permanent imprinted metal label attached with rivets midway between the base plate and the handhole. State the overall pole height, shaft gauge, and year of manufacture on the label. Provide a label that will conform to the curvature of the pole and not have any sharp edges or corners. Install rivets so they are smooth inside and outside of the pole.

Thoroughly clean the exterior surface of the pole, arm, and hardware to make them free of all loose rust, mill scale, dirt, oil, grease, and other foreign substances after all welding has been completed. Hot-dip galvanized the poles and arms according to the requirements of ASTM Designation A123. Hot-dip galvanize the hardware according to ASTM designation A153. Provide a bright, shiny, and uniform galvanized finish. Matted or dull pole sections will not be accepted.

Furnish non-shrink commercial grout from approval products list.

C Construction

Set and plumb metal poles with the use of leveling nuts furnished with the anchor bolts. Level luminaires after erecting and leveling the metal standards with bracket arms. The proper leveling method may be obtained from the manufacturer's instruction manual. Torque nuts on anchor and transformer bolts to 175-200 foot pounds or as directed by the engineer. Provide rust, corrosion, and snit-seize protection at all threaded assemblies by coating and mating surfaces with Markal (hightemp – E-Z Break), Never-Seez (Marine Grade), LPS 100, Lubriplate, or approved equal.

Attach the stranded copper ground wire that is installed as a part of the base construction with an approved connector (Fargo GC 202 or approved equal) to a ground nut locate inside the pole opposite the handhole.

When transformer bases are not installed, trowel grout between the pole and concrete base and finished at an angle from the edge of the pole base to the outer edge of the foundation. Leave a ½ inch slot for drainage through the grouting on the street side at the top of the concrete base.

D Measurement

The department will measure Pole 30-Foot, 11 Gauge, Simplex-City of Madison 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.0060.22	Poles 30-FT 11 Gauge, Simplex-City of Madison	EACH

Payment is full compensation according to standard spec 657.5.

90. Poles 30-FT-City of Middleton, Item SPV.0060.23.

A Description

This special provision describes furnishing and installing poles and arms according to standard spec 657, the details shown on the plans, and these special provisions.

B Materials

Provide round poles, with a base plate welded to the bottom end of the pole. All 30-foot poles are to be a single section, with a seven-inch diameter shaft at the base.

Provide Poles 30-FT-City of Middleton as manufactured Hapco, model number RTA30C7B4-BA.

Provide base plates that have a slotted opening for anchor bolts.

Certify that all 30-foot poles have been designated to withstand a 90-mile per hour sustained wind velocity and 117 mile per hour gust velocity with the bracket arm and luminaires in place.

Furnish and install a pole-top cover and four nut covers for each pole. Adjust the size of the pole top cover to account for poles cut to shorter lengths.

C Construction

Set and plumb metal poles with the use of leveling nuts furnished with the anchor bolts. Level luminaires after erecting and leveling the metal standards with bracket arms. The proper leveling method may be obtained from the manufacturer’s instruction manual.

D Measurement

The department will measure Pole 30-Foot-City of Middleton 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.0060.23	Poles 30-FT-City of Middleton	EACH

Payment is full compensation according to standard spec 657.5.

91. Concrete Base Type LB-3-City of Madison, Item SPV.0060.24; Concrete Base Type P-City of Madison, Item SPV.0060.25.

A Description

This special provision describes construction of concrete foundations, including necessary hardware, as shown on the plans, according to the pertinent provisions of standard spec 654 and as hereinafter provided.

B Materials

Concrete masonry shall be Grade A, A-WR, A-FA, or A-IP conforming to the requirements of standard spec 501.

Conduit cast within the bases shall be Schedule 40 polyvinyl chloride (PVC) electrical conduit and shall conform to the requirements of standard spec 652.

Anchor bolts for Type LB-3 bases shall be made from high strength steel (50 KSI minimum yield strength), ASTM A36, and each shall be fitted with two hard washers and two heavy hex nuts. Each bolt shall have approximately 6 inches or more of thread at the top end. The bolts, washers, and nuts shall be galvanized. Bolts for the LB-3 base shall be 1.00 inch by 40 inch including 4 inch L-bend at the bottom.

The Type P bases shall include a concrete maintenance platform. The Type P base shall generally be constructed according to the Concrete Control Cabinet Base Standard Detail. The location of the conduits in the base shall be confirmed with the City of Madison. Bar steel reinforcement shall conform to the requirements of standard spec 505.

C Construction

Place the bases with one side parallel to the centerline of the street.

Provide forms of sufficient depth to provide a minimum of 12 inches of formed base below the finished grade on the low side of the base. Construct the top surface of the base with a 3/4 inch bevel on the edges with a rubbed finish.

Cast anchor bolts into the base as shown on the plans. Verify bolt circle diameters before constructing the bases.

Furnish and install manufactured elbows in all bases, except as noted on the details. Install elbows that permit conduit to be installed in as nearly straight-line runs as possible, without unnecessary bends. Bases not installed to this standard will not be accepted. Extend existing conduit into the bases. Install an extra elbow as directed by the engineer at each base at the end of a run. Install extra elbows in any new base as directed by the engineer.

Erect poles on the concrete bases until the bases after the concrete has cured for at least seven days.

Provide a rubbed finish down to finished grade for all concrete bases.

D. Measurement

The department will measure Concrete Base (Type) 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.0060.24	Concrete Base Type LB-3-City of Madison	EACH
SPV.0060.25	Concrete Base Type P-City of Madison	EACH

Payment is full compensation for furnishing and installing all materials including conduit, bushings, caps and/or plugs, ground rod, anchor bolts, cad welding, copper grounding wire; bar steel reinforcement, and concrete masonry; for providing openings through existing pavement where required; for excavation, including hand-digging as required, backfill, and disposal of surplus materials.

92. Electrical Pull Box Type I-City of Madison, Item SPV.0060.26; Electrical Pull Box Type V-City of Madison, Item SPV.0060.70; Electrical Pull Box Type VII-City of Madison, Item SPV.0060.71.

A Description

Furnish and install electrical pull boxes according to standard spec 653, the plan details, and as hereinafter provided.

B Materials

Electrical Pullbox, Type I shall be gray-colored polymer-concrete construction. Box dimensions for Type I shall be 19” wide X 32” long X 24” deep. The Type I box and cover shall be rated to withstand 15,000 lbs over a 10” square with a minimum test load of 22,568 lbs.

Electrical Pullbox, Type V shall be high-density polyethylene box and concrete polymer lid or concrete polymer construction for box and lid. Box dimensions for Type V shall be 24-inch wide by 36-inch long by 24-inch deep. The Type V box and polymer cover shall be rated to withstand 20,000 lbs.

Electrical Pullbox, Type VII shall be high-density polyethylene box and concrete polymer lid or concrete polymer construction for box and lid. Box dimensions for Type VII shall be 30-inch wide by 50-inch long by 36-inch deep. The Type VII box and polymer cover shall be rated to withstand 20,000 lbs.

Each cover shall have the logo “ELECTRICAL LIGHTING” imprinted from the manufacturer.

C Construction

Install Electrical Pull Box (Type) according to the pertinent provisions of standard spec 653.3 and the plan details.

D Measurement

The department will measure Electrical Pull Box (Type), completed according to the contract and accepted, as a unit for each pull box.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Electrical Pull Box Type I-City of Madison	EACH
SPV.0060.70	Electrical Pull Box Type V-City of Madison	EACH
SPV.0060.71	Electrical Pull Box Type VII-City of Madison	EACH

Payment is full compensation for furnishing and installing all materials, including crushed aggregate; for excavation, backfill, and disposal of surplus materials.

93. Manholes 9-FT Diameter, Item SPV.0060.27.

A Description

Perform work according to the applicable provisions of standard spec 611 and as detailed in the plans.

B Materials

Furnish materials conforming to standard spec 611 and plan details.

C Construction

Provide shop drawings for the details of the reinforcing to the engineer.

Do not place reinforcing until engineer has reviewed the reinforcing shop drawing.

Construct according to standard spec 611 and plan details.

Maintain existing drainage patterns and provide necessary materials necessary for temporary connections to existing storm sewer.

All necessary temporary shoring needed for construction of this item will not be paid for separately but will be included in this item of work.

D Measurement

The department will measure Manholes 9-FT Diameter as each individual manhole, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.27	Manholes 9-FT Diameter	EACH

94. Inlet Covers Type DW, Item SPV.0060.28.

A Description

Perform work according to the applicable provisions of standard spec 611 and as detailed in the plans.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Inlet Covers Type DW by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.28	Inlet Covers Type DW	EACH

Payment is full compensation for providing new covers, including frames, grates or lids, all other required materials, and for installing and adjusting each cover.

95. Terrace Inlet Type II, Item SPV.0060.29.

A Description

Perform work according to the applicable provisions of standard spec 611 and as detailed in the plans.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Terrace Inlet Type II by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.29	Terrace Inlet Type II	EACH

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections; for furnishing all excavating, backfilling, disposing of surplus material, providing new covers (grates only), all other required materials, for installing and adjusting each cover, and for cleaning out and restoring the work site.

96. Weir Wall PV4154, Item SPV.0060.30; Weir Wall PV4393, Item SPV.0060.31; Weir Wall PV499, Item SPV.0060.32; Weir Wall PV5095 Item SPV.0060.33.

A Description

Perform work according to the applicable provisions of standard spec 611 and as detailed in the plans.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Weir Wall (number) as each individual weir wall, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.30	Weir Wall PV4154	EACH
SPV.0060.31	Weir Wall PV4393	EACH
SPV.0060.32	Weir Wall PV499	EACH
SPV.0060.33	Weir Wall PV5095	EACH

Payment is full compensation for providing all materials, including all concrete, steel reinforcement, storm sewer connections, and other fittings; for all excavating, backfilling, disposing of surplus material, and for cleaning out and restoring to work.

97. Manhole Frame with Chimney, Item SPV.0060.34.

A Description

This work includes the removal and replacement and/or providing a new manhole frame and lid for sanitary sewer manholes.

B Materials

Refer to the City of Middleton Standard detail number 500-01 for Sanitary Sewer drop manhole for manhole frame and chimney material information.

Provide an internal manhole frame/chimney seal for each new sanitary sewer manhole. Engineer may determine that a chimney seal is not required for a manhole not susceptible to high groundwater conditions.

Chimney seal shall be made of a rubber type product, with a minimum thickness of 3/16 inches, a minimum unstretched width of 8 inches and be extruded or molded from a high grade rubber compound conforming to the applicable requirements of ASTM C923. The bands used for compressing the sleeve against the manhole shall be fabricated from stainless steel conforming to ASTM A240, Type 304, for sheet and ASTM A479, Type 304, for rods. Any screws, bolts, or nuts used on these bands shall be stainless steel conforming to ASTM F593 and 594, type 304. The internal seal or its appurtenances shall not extend far enough into the manhole opening to restrict entry into or exit from the manhole.

Manhole frame/chimney seal shall be designed to prevent the leakage of water into the manhole at the area of the joint between the casting frame and manhole chimney continuously throughout a 20-year design life. The seal shall remain flexible, allowing repeated vertical movements of the frame due to frost lift, ground movement, or other causes of up to 2 inches and/or repeated horizontal movements of the frame due to thermal movement of the pavement or other causes of up to 1/2 inch, both rates of movement occurring at rates not less than 0.10 inch per minute.

The seal shall be made of materials that have been successfully used in sanitary sewer construction for at least ten years and have proven to be resistant to sanitary sewerage; corrosion or rotting under wet or dry conditions; the gaseous environment in sanitary sewers and at road surfaces including common levels of ozone, carbon monoxide and other trace gases at the sites of installations; the biological environment in soils and sanitary sewers; chemical attacks by road salts, road oil and common street spillages or solvents used in street construction or maintenance; the temperature ranges, variations and gradients in and between manhole frames and chimneys in the climate of the location of construction; variations in moisture conditions and humidity; fatigue failure caused by a minimum of 30 freeze-thaw cycles per year; or vibrations due to traffic loadings; fatigue failure due to repeated variations of tensile, compressive and shear stresses and repeated elongation and compression; and any combination of the foregoing. The materials used shall be compatible with each other and the manhole materials.

The seal shall be designed to continuously prevent the leakage of water from outside the manhole into the manhole at the joint where the manhole from meets the chimney or cone. At the same time the seal shall remain flexible allowing repeated vertical movements of the frame, due to frost heave of the pavement or the frame or due to other causes, from 0 to 2 inches above the top of the chimney or cone and repeated horizontal movements of the frame with respect to the top of the chimney or cone, due to pavement movements or other causes, of from 0 to 1/2 inch, or both simultaneously with both types of movement occurring at rates not greater than 1/10 inch per minute.

C (Vacant)

D Measurement

The department will measure Manhole Frame with Chimney 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.0060.34	Manhole Frame with Chimney	EACH

Payment is full compensation for all work in furnishing and installing the cover and seal as specified herein.

98. Connect to Existing Sanitary Sewer, Item SPV.0060.35.

A Description

This work includes the connection of new sanitary sewer main to existing sanitary sewer main as part of sanitary sewer installation.

B Materials

If a rigid coupling of same material as pipe is not available for main connection, connect to existing pipe with approved City of Middleton couplings as described in Section 502 subsection F of the City of Middleton's Sanitary Sewer and Force Main Specifications - Latest Edition.

If a rigid connection cannot be made on a lateral, connect to existing pipe with Fernco, Mission, or equal coupling to provide a watertight connection.

C (Vacant)

D Measurement

The department will measure Connect to Existing Sanitary Sewer 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.0060.35	Connect to Existing Sanitary Sewer	EACH

Payment is full compensation for all work in furnishing and installing the connection as specified herein.

99. Sanitary Sewer Access Structure (4-Foot Diameter), Item SPV.0060.36.

A Description

This work includes furnishing, installing, and testing a new 4-foot diameter sanitary sewer access structure as part of sanitary sewer installation.

B Materials

Manholes shall be precast reinforced concrete and shall conform to Specification for Precast Reinforced Concrete Manhole Sections (ASTM C478) and the standard detail drawings. Joints shall be tongue and groove. Joint seal shall be circular O-ring conforming to ASTM C443, Ram Neck, Mas-Stick, butyl rubber gasket, or butyl rubber rope.

Adjusting rings shall be injection molded high density polyethylene (HDPE), manufactured by Ladtech, IPEX, or equal. Joints shall be sealed with approved silicone or butyl sealant according to manufacturer's recommendations. Materials shall conform to ASTM D-1248 using 100% recycled material. Rings shall be tested to assure compliance in meeting H-20 loading capacity per AASHTO Standards.

Where casting adjustment requirements cannot be met by the use of HDPE adjustment rings and upon engineer's approval, Provide precast concrete adjusting rings. Precast adjusting rings shall have at least one No. 2 reinforcing rod centered within ring and shall be sealed with 3.5-inch by 3/8-inch EZ-Stik, or equal, placed on each surface of the ring. Where EZ-Stik is not appropriate as determined by engineer, seal rings with cement grout.

C Construction

All pipe and manhole lift holes shall be filled with a conical plug and sealed watertight with hydraulic cement applied to exterior surface.

D Measurement

The department will measure Sanitary Sewer Access Structure (4-Foot Diameter), 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.0060.36	Sanitary Sewer Access Structure (4-Foot Diameter)	EACH

Payment is full compensation for all work in furnishing and installing the structure as specified herein.

100. Sanitary Sewer Stub Cap, Item SPV.0060.37.

A Description

This work includes providing a permanent cap on a sanitary sewer main stub for future connections as part of sanitary sewer installation.

B Materials

Sanitary Sewer Stub Caps shall be permanent glued caps that match both the size and material type and class of the sewer stub. A treated 2 by 4 shall be placed at the termination of the cap and extended to the surface to mark the location.

C (Vacant)

D Measurement

The department will measure Sanitary Sewer Stub Caps, 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.0060.37	Sanitary Sewer Stub Cap	EACH

Payment is full compensation for all work in furnishing and installing the structure as specified herein.

101. Drop Sanitary Sewer Access Structure (5-Foot Diameter), Item SPV.0060.38.

A Description

This work includes furnishing, installing, and testing a new 5-foot diameter drop sanitary sewer access structure as part of sanitary sewer installation. The manhole shall be fabricated and furnished to adhere with the City of Middleton, Standard Detail, Sanitary Sewer Drop Manhole.

B Materials

Manholes shall be precast reinforced concrete and shall conform to Specification for Precast Reinforced Concrete Manhole Sections (ASTM C478) and the standard detail drawings. Joints shall be tongue and groove. Joint seal shall be circular O-ring conforming to ASTM C443, Ram Neck, Mas-Stick, butyl rubber gasket, or butyl rubber rope.

Adjusting rings shall be injection molded high density polyethylene (HDPE), manufactured by Ladtech, IPEX, or equal. Joints shall be sealed with approved silicone or butyl sealant according to manufacturer's recommendations. Materials shall conform to ASTM D-1248 using 100% recycled material. Rings shall be tested to assure compliance in meeting H-20 loading capacity per AASHTO Standards.

Where casting adjustment requirements cannot be met by the use of HDPE adjustment rings and upon engineer's approval, provide precast concrete adjusting rings. Precast adjusting rings shall have at least one No. 2 reinforcing rod centered within ring and shall be sealed with 3.5-inch by 3/8-inch EZ-Stik, or equal, placed on each surface of the ring. Where EZ-Stik is not appropriate as determined by engineer, seal rings with cement grout.

C Construction

All pipe and manhole lift holes shall be filled with a conical plug and sealed watertight with hydraulic cement applied to exterior surface.

D Measurement

The department will measure Drop Sanitary Sewer Access Structure (5-Foot Diameter), as each individual unit, acceptably completed. All cost for the solid wall PVC associated with the drop and drop assembly and bedding material shall be incidental to the cost of the manhole structure.

E. Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.38	Drop Sanitary Sewer Access Structure (5-Foot Diameter)	EACH

Payment is full compensation for all work in furnishing and installing the structure as specified herein.

102. Adjust Sanitary Sewer Access Structure Special, Item SPV.0060.39.

A Description

Work under this item includes adjusting Sanitary Sewer Access Structure (SAS) castings as called for on the plan set to the final proposed grades. This bid item is required because the casting adjustment is greater than 9 inches of vertical adjustment to set the casting to the final grade or the chimney was determined to be in poor condition. Manhole adjustments less than 9 inches will be paid for separately under Bid Item Adjusting Manhole Covers. Installation of offset cone and casting as called for on the plan will be considered included with this bid item. Rotation of an existing cone sections will be considered included with this bid item.

B Materials

Provide precast concrete barrel sections and manhole adjustment rings meeting the requirements of Article 507.3, as well as Standard Detail Drawings 5.7.2, 5.7.15, and 5.7.16 of the City of Madison Standard Specifications.

C Construction

Complete adjust SAS Special according to Article 507.3 of the City of Madison Standard Specifications. This bid item will require adjustment rings to be removed and concrete barrel sections to be installed. The maximum allowed adjustment on the Sewer Access Structure will not exceed 9 inches and the final configuration of the structure will be in accordance of Standard Detail Drawings 5.7.2 and 5.7.15 of the City of Madison Standard Specifications. If the sewer access structure being adjusted is a poured in place structure (4 x 4, 5 x 5, or 6 x 6), install a 4-foot diameter barrel section on the poured in place manhole rooftop and place a concrete collar where the barrel section connects to the manhole rooftop. Center the barrel section over the casting opening. If the existing casting is offset, sawcut the manhole rooftop to create an opening centering the barrel section on the manhole rooftop.

D Measurement

The department will measure Adjust Sanitary Sewer Access Structure Special as each individual adjust sanitary sewer access 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.0060.39	Adjust Sanitary Sewer Access Structure Special	EACH

Payment is full compensation for adjusting sanitary sewer access structure, sawcutting the roof, and installing mastic and concrete collars.

103. Adjust Manhole Cover Special, Item SPV.0060.40.

A Description

Work under this item incudes providing new concrete or HPDE adjustment rings to existing sanitary sewer access structure on site requiring less than 0.75 feet of adjustment.

B Materials

For work on City of Madison facilities, provide precast manhole adjustment rings meeting the requirements of Article 507.3, as well as Standard Detail Drawing 5.7.2, 5.7.15, and 5.7.16 of the City of Madison Standard Specifications.

For work on City of Middleton facilities, provide manhole adjustment rings per City of Middleton Standard Specifications section 100, 200, and 500.

C Construction

Refer to manufacturer's installation recommendations for ring installation and procedures.

For work on City of Madison facilities, adjustment items allow for a final ring adjustment range between 3 inches and 9 inches.

For work on City of Middleton facilities, adjustment items allow for a final ring adjustment range between 4 inches and 12 inches.

D Measurement

The department will measure Adjust Manhole Cover Special as each individual adjust sanitary sewer access structure casting, 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.0060.40	Adjust Manhole Cover Special	EACH

Payment is full compensation for removing and replacing existing sanitary sewer access structure rings.

104. Abandon Sanitary Sewer Pipe Plug, Item SPV.0060.41.

A Description

Work under this item incudes removing existing pipes or fill them with sand or grout and seal ends with a minimum 2-foot-thick grout plug. There is a portion of sewer in the Pleasant View Road and Quarry Road intersection that needs to either be fully removed or plugged as indicated within the plans.

B Materials

If plugging, provide a minimum 2-foot-thick grout plug along with sand or grout to fill the space.

C (Vacant)

D Measurement

The department will measure Abandon Sanitary Sewer Pipe Plug as either the full removal of the section of existing sanitary sewer main as indicated on the plan drawings or the successful abandonment of the section of sewer as prescribed above.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.41	Abandon Sanitary Sewer Pipe Plug	EACH

Payment is full compensation for removing or plugging the existing sanitary sewer main as indicated in the drawings.

105. Construction Staking Sanitary Sewer, Item SPV.0060.42.

A Description

Work under this item includes construction staking for sanitary sewer installation. Perform work according to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain a minimum of two construction stakes to establish location and grade of sanitary sewer structures according to the plans and details for sanitary sewer structures. Set and maintain construction stakes to establish location and grade of sanitary sewer main. Provide stakes that establish the horizontal and grade elevation of sanitary main at intervals of 25 feet for a minimum of 100 feet from each structure and at intervals of 50 feet thereafter. Determine offsets in conjunction with contractor requirements. Verify the invert elevations of existing structures which are to remain and be connected into. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

Place additional intermittent stakes as necessary to provide staking information at critical areas such as utility, driveway, roadway, and structure crossings.

D Measurement

The department will measure Construction Staking Sanitary Sewer as each individual construction staking sanitary sewer, 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.0060.42	Construction Staking Sanitary Sewer	EACH

Payment is full compensation for locating and setting all construction stakes at all locations, and for relocating and resetting damaged or missing construction stakes.

106. Wastewater Control, Item SPV.0060.43.

A Description

Work under this item includes controlling or diverting sanitary sewer flows during reconstruction of the sanitary sewer as part of sanitary sewer installation.

B (Vacant)

C Construction

Provide a pump with a capacity of 400 gallons per minute and all associated equipment required to maintain a functioning sanitary sewer system during construction. It is not acceptable, at any time, to disrupt normal flow of wastewater in sanitary sewer service laterals without prior approval from the City of Madison. This condition also holds at the time of connection of an existing lateral to the new sewer main.

If the contractor elects to use bypass pumping as a means of wastewater control, the methods, equipment, type of hose, etc. are subject to approval by the engineer. Ramp any hoses crossing streets, driveways, parking areas, etc., to prevent damage to hoses. Contain spillage of wastewater

to be within the utility trench and dispose of spillage into existing sewer downstream to previously installed sewer piping. Spillage of wastewater to adjacent streets, lawns, etc. will not be tolerated. Should spillage occur, cease all construction operations immediately and begin cleanup operations. Clean site thoroughly prior to the resumption of any construction operations.

D Measurement

The department will measure Wastewater Control as each individual wastewater control, 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	Wastewater Control	EACH

Payment is full compensation for controlling or diverting all sanitary sewer flows during construction of sanitary sewer.

107. Sanitary Sewer Dewatering, Item SPV.0060.44.

A Description

This section describes dewatering the site during construction or working with the water on site in a manner that allows the project to be constructed according to the plans and specifications. 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.

Groundwater is expected to be encountered during excavation for utilities. Provide and maintain ample means and devices with which to promptly remove all water entering excavations, trenches, and other parts of the work and keep said excavations dry until the structures to be built therein are completed.

Installation of concrete or masonry structures will not be acceptable if placed in water or if water is allowed to rise over masonry or concrete and there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

The contractor is responsible for all work, materials and equipment required to comply with permit conditions to dewater the site. At a minimum, pump water into a settling tank, or alternate method approved by the engineer, to settle solids prior to discharge into the storm sewer for clean water and into the designated sanitary sewer for potentially contaminated water.

B General

Discharge clean water (of any type or from any source) to the storm sewer system. 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. Separate plans shall be submitted to both Madison contacts and Middleton contacts based off the category in which the work occurs. 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 will 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 according to 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.

Review and approval of the dewatering plan does not relieve the contractor of the dewatering requirements stated in these specifications. The engineer assumes no liability for the performance or safety of the dewatering system.

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. According to 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 according to 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

C Construction

Water shall not be allowed in trenches while pipe is being laid.

No masonry shall be installed in water nor shall water be allowed to rise over masonry or concrete if there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

Dewater in such a manner that assures safe working conditions and provides stable trench side slopes and trench bottom for adequate support of the pipe and appurtenances. Dewater sufficiently to minimize or eliminate groundwater pressures below the proposed trench bottom which otherwise may tend to cause boiling or a "quick" condition at the trench bottom. Where silty sands or other impervious soils are encountered at and/or below the pipe zone, the dewatering equipment must be adequate to relieve the groundwater pressure below the impervious soil layer and accomplish sufficient drainage of the impervious soils to provide a stable trench bottom.

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 storm sewer system. Periodically pump potentially contaminated water from the top of the settling tank into the approved sanitary sewer. Provide a meter to measure the volume of potentially contaminated water discharged to the sanitary sewer system.

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 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. Use only electrically driven pumps for dewatering operations. 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.

The contractor is responsible for removal and/or abandonment of dewatering wells. Removal and/or abandonment shall conform to all state and local regulations.

D Measurement

The department will measure Sanitary Sewer Dewatering as each individual sanitary sewer dewatering, 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.0060.44	Sanitary Sewer Dewatering	EACH

Payment is considered full compensation for furnishing all work necessary for pumping, measuring of potentially contaminated water, settling and discharging water, both clean and potentially contaminated for all locations for sanitary sewer work; for paying permit fees required; and for eliminating and correcting all flooding or erosion damage caused by dewatering operations.

108. Salvage and Reset Hydrant with Auxiliary Valve, Item SPV.0060.45.

A Description

This work shall consist of salvaging and reinstalling existing fire hydrants with new auxiliary valves as shown on the plans according to section 704.7 of the City of Madison Standard Specifications. Hydrants with leads shall be installed according to the construction detail Typical Hydrant Installation Detail Drawing No. 7.04.

B Materials

Existing hydrants shall be salvaged and inspected by the city to verify that both are in operational order. Contractor shall install the salvaged items according to section 702 of the City of Madison Standard Specifications. Provide the following items include furnishing all other necessary materials and fittings; bedding the valves; excavating, dewatering and compacting the trenches; installing valves, valve boxes and any necessary extensions; adjustments of valve boxes; installing and removing sheeting and bracing; restraint, polyethylene encasement, thrust restraint and any other appurtenances required to furnish and install valves as required.

New auxiliary valves shall be furnished according to Section 704.6 of the City of Madison Standard Specifications.

C Construction

Install all hydrants according to Hydrant Detail and Section 703.8 of the City of Madison Standard Specifications, unless otherwise shown or specified.

Install hydrants with permanently plugged drain ports or hydrants without drain ports where identified on the plans.

D Measurement

The department will measure Salvage and Reset Hydrant with Auxiliary Valve by each hydrant, new valve, and hydrant lead that is 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 and Reset Hydrant with Auxiliary Valve	EACH

Payment is full compensation for all work in salvaging, reinstalling, and additional materials and lead pipe needed for hydrant lead locations as specified herein.

109. Middleton Furnish and Install Hydrant, Item SPV.0060.46.

A Description

This work shall consist of furnishing and installing new fire hydrants as shown on the plans according to *City of Middleton Standard Specifications* sections 100, 200, and 400. Fire hydrants shall conform to AWWA C502 and the Construction Detail Drawing, City of Middleton Standard Detail Hydrant. Consult the detail drawing for hydrant heights and setbacks from obstructions.

B Materials

Refer to the City of Middleton's Water Main Specification Section 401 subsection B - Latest Edition or the City of Middleton Standard Detail drawing 401 hydrants, for materials associated with this bid item.

Furnish hydrants with permanently plugged drain ports or hydrants without drain ports where identified on the plans.

C Construction

Hydrants shall be placed according to standard detail drawing at locations shown on the drawings or requested by engineer.

All hydrants shall stand plumb and shall have the pumper nozzle perpendicular to the roadway. Each hydrant shall be connected to the main with a 6-inch ductile iron lead.

D Measurement

The department will measure Middleton Furnish and Install Hydrant by each hydrant that is 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.0060.46	Middleton Furnish and Install Hydrant	EACH

Payment is full compensation for all work in furnishing and installing the hydrant as specified herein.

110. Cut Off Existing Water Main, Item SPV.0060.47.

A Description

The work under this section consists of abandoning the existing water mains at the locations shown or as designated by the engineer according to section 704.14 of the City Standard of Madison Specifications.

The work under this section consists of abandoning the existing water mains at the locations shown or as designated by the engineer according to City of Middleton Standard Specifications.

B Materials

Furnish all materials as appropriate per section 702 of the City of Madison Standard Specifications.

Furnish all materials as appropriate per the City of Middleton Standard Specifications.

C Construction

After a safe sample on the new water main section has been obtained and all water service laterals have been reconnected, abandon the existing water main were indicated on the plans.

For the City of Middleton facilities, cut off will need to occur after the existing building lateral has been transferred to the new water main. No long term shut off or temporary water service is prohibited for this lateral.

D Measurement

The department will measure Cut Off Existing Water Main as each complete individual cut off, made acceptably complete.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.47	Cut Off Existing Water Main	EACH

Payment is full compensation for all work in cutting off the water main as specified herein.

111. Abandon Water Valve Box, Item SPV.0060.48.

A Description

This work consists of abandoning and salvaging all fire hydrant auxiliary valve boxes as identified on the drawings and the City of Middleton Standard Specifications.

B (Vacant)

C Construction

Hydrant auxiliary valves shall be salvaged and delivered to the City of Middleton at the City Water Utility yard behind water tower at 3640 High Road.

D Measurement

The department will measure Abandon Water Valve Box as each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.48	Abandon Water Valve Box	EACH

Payment is full compensation for all work in abandoning and salvaging the water valve box as specified herein; and for delivering them to the City of Middleton.

112. Abandon Hydrant, Item SPV.0060.49.

A Description

Salvage all castings, valve boxes, valve stems, and fire hydrants, and any other appurtenances identified for salvage and deliver them to City of Middleton at the City Water Utility yard behind water tower at 3640 High Road.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Abandon Hydrant as each abandon hydrant and valve and boxes delivered to the Water Utility, as 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.0060.49	Abandon Hydrant	EACH

Payment is full compensation for all work in abandoning and salvaging the hydrant, valves, and appurtenances as specified herein; and for delivering them to the City of Middleton.

113. Adjust Water Valve Box, Item SPV.0060.50.

A Description

Adjust Water Valve Box consists of adjusting all existing water valve boxes within the project limits to between 1/4-inch to 1/2-inch below finished grade according to section 704.18 of the City of Madison Standard Specification.

Adjust Water Valve Box consists of adjusting all existing water valve boxes within the project limits to between 1/4-inch to 1/2-inch below finished grade according to City of Middleton Standard Specifications.

Adjustment of new valve boxes is incidental to water main construction and will not be paid under this item.

B Materials

For City of Madison facilities, provide all materials according to section 702 of the City of Madison Standard Specifications.

For City of Middleton facilities, provide all materials according to the City of Middleton Standard Specifications.

C Construction

For City of Madison facilities, perform all work according to section 703 of the City of Madison Standard Specifications

For City of Middleton facilities, perform all work according to City of Middleton Standard Specification.

Excavate and expose the existing water valve boxes to the depth needed to adjust the valve boxes to finished grade. Extensions may be required. Backfill and compact according to the City of Madison Standard Specifications or City of Middleton Standard Specifications for compaction. Leave all valve boxes centered over the valve operating nut and free of dirt and debris.

D Measurement

The department will measure Adjust Water Valve Box as each individual adjust water valve 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.0060.50	Adjust Water Valve Box	EACH

Payment is full compensation for all work adjusting the water valve box as specified herein.

114. Furnish & Install Valve 6-Inch, Item SPV.0060.51; Furnish & Install Valve 10-Inch, Item SPV.0060.52; Furnish & Install Valve 12-Inch, Item SPV.0060.53.

A Description

This work consists of furnishing and installing all valves as identified on the plan and as required to complete the installation of the proposed water main according to section 400 of the City of Middleton Standard Specifications.

Proposed valves associated with pressure taps or live taps, as indicated on the plans, are not included in these items.

B Materials

Furnish materials according to section 400 of the City of Middleton Standard. These items include furnishing all materials and fittings; bedding the valves; excavating, dewatering and compacting the trenches; installing valves, valve boxes and any necessary extensions; adjustments of valve boxes; installing and removing sheeting and bracing; restraint, polyethylene encasement, thrust restraint and any other appurtenances required to furnish and install valves as required.

Gate Valves:

1. Refer to the City of Middleton's Water Main Specification Section 401 subsection c - Latest Edition for materials associated with this bid item. All valves shall conform to AWWA C509 (cast iron) or C515 (ductile iron) and shall have the following features:
    a. Type: Class 150 iron body, non-rising forged bronze stems, resilient seat wedge type with epoxy coating inside.
    b. Valve Ends: Mechanical joint with rubber gaskets.
    c. Stem Seal: Two O-rings Buna-N or NBR rubber meeting ASTM D2240.
    d. Open: Left.
    e. Valves shall be designed for direct bury installation on distribution mains.

C Construction

Install valves according to section 400 of the City of Middleton Standard Specifications. Furnish and install valve box extensions where needed. All valve box extensions are incidental to the installation of the valve.

D Measurement

The department will measure Furnish & Install (Size) Water Valve as each individual water valve, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.51	Furnish & Install Valve 6-Inch	EACH
SPV.0060.52	Furnish & Install Valve 10-Inch	EACH
SPV.0060.53	Furnish & Install Valve 12-Inch	EACH

Payment is full compensation for all work in furnishing and installing all water valves of specific size as specified herein.

115. Furnish & Install Valve 10-Inch Live Tap, Item SPV.0060.54.

A Description

This work consists of furnishing and installing all live tap valves and appurtenances as identified on the plan and as required to complete the installation of the proposed water main according to section 400 of the City of Middleton Standard Specifications.

B Materials

Furnish materials according to section 400 of the City of Middleton Standard Specifications. These items include furnishing all materials and fittings; bedding the valves; excavating, dewatering and compacting the trenches; installing valves, valve boxes and any necessary extensions; adjustments of valve boxes; installing and removing sheeting and bracing; restraint, polyethylene encasement, thrust restraint and any other appurtenances required to furnish and install valves as required.

Live Tap Sleeve and Valve:

1. Refer to the City of Middleton's Water Main Specification Section 401 subsection c - Latest Edition for materials associated with this bid item. All valves shall conform to AWWA C509 (cast iron) or C515 (ductile iron) and shall have the following features:
    a. Type: Class 150 iron body, non-rising forged bronze stems, resilient seat wedge type with epoxy coating inside.
    b. Valve Ends: Mechanical joint with rubber gaskets.
    c. Stem Seal: Two O-rings Buna-N or NBR rubber meeting ASTM D2240.
    d. Open: Left.

e. Valves shall be designed for direct bury installation on distribution mains.

2. Mechanical Joint Tapping Sleeve shall be Mueller type H-615, American Flow Control Series 2800, or equal product or equal product as approved by the city with the following features:

   a. Outlet flange drilling complies with ASME/ANSI B16.1 class 125, B16.42 class 150 and with MSS SP-60

   b. Certified to ANSI/NSF 61.

   c. Ductile Iron body with 3/4" NPT test plug.

   d. 4"-24" sizes--250 psig (1725 kPa/17 barg) maximum working pressure.

C Construction

Install valves according to section 400 of the City of Middleton Standard Specifications. Furnish and install valve box extensions where needed. All valve box extensions are included with the installation of the valve.

D Measurement

The department will measure Furnish & Install Valve 10-Inch Live Tap as each individual water valve, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.54	Furnish & Install Valve 10-Inch Live Tap	EACH

Payment is full compensation for all work in furnishing and installing water valves of specific size as specified herein.

116. Water Vault and Casting, Item SPV.0060.55.

A Description

This work consists of furnishing and installing all water main vaults and castings as identified on the plan and as required to complete the installation of the proposed water main according to section 400 of the City of Middleton Standard Specifications.

B Materials

Furnish materials according to section 400 of the City of Middleton Standard Specifications.

Valve Manholes: Manholes and catch basins shall be precast reinforced concrete and shall conform to Specifications for Precast Reinforced Concrete Manhole Sections (ASTM C478) and the standard detail drawings. Joints shall be tongue and groove. Joint seal shall be circular O-ring conforming to ASTM C443, Ram Nek, Mas-Stik, butyl rubber gasket, or butyl rubber rope.

Manhole Casting and Adjusting Rings: Castings and adjusting rings shall conform with the City of Middleton Standard Detail 400-02 Water Valve Manhole for frame and lid and adjusting ring information.

C (Vacant)

D Measurement

The department will measure Water Valve and Casting as each vault and installed, as acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.55	Water Valve and Casting	EACH

Payment is full compensation for all work in installing vault, casting, and appurtenances as specified herein.

117. Adjust Water Vault and Casting, Item SPV.0060.56.

A Description

This work consists of furnishing new rings and casting and adjusting existing water main vaults and castings as identified on the plan and as required to complete the installation of the proposed water main according to section 400 of the City of Middleton Standard Specifications.

B Materials

Furnish materials according to section 400 of the City of Middleton Standard Specifications.

Manhole Casting and Adjusting Rings: Castings and adjusting rings shall conform with the City of Middleton Standard Detail 400-02 Water Valve Manhole for frame and lid and adjusting ring information.

C (Vacant).

D Measurement

The department will measure Adjust Water Vault and Casting as each vault casting and rings successfully replaced.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.56	Adjust Water Vault and Casting	EACH

Payment is full compensation for all work in installing new casting and rings as specified herein.

118. Abandon Water Vault, Item SPV.0060.57.

A Description

This work consists of abandoning existing water main vaults and castings as identified on the plan and as required to complete the installation of the proposed water main according to section 400 of the City of Middleton Standard Specifications.

B Materials

The existing vault void shall be filled with 1-inch clear stone such that drainage is maintained through the vault drain field.

C Construction

The existing vault concrete concentric cone shall be removed, and the vault void filled with clear stone such that the stone is level with the top of the vault's highest riser section.

D Measurement

The department will measure Abandon Water Vault as each vault, successfully abandoned.

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	Abandon Water Vault	EACH

Payment is full compensation for all work in abandoning existing water vaults including furnishing clear stone; and removal of existing vault concrete concentric cones as specified herein.

119. 12-Inch Check Valve, 2 12-Inch Isolation Valves and Vault, Item SPV.0060.58.

A Description

This work consists of installing a 5x10-foot concrete vault, two 12-inch isolation valves, one 12-inch check valve, and associated appurtenances. This work is required to complete the installation of the proposed water main according to section 400 of the City of Middleton Standard Specifications.

B Materials

Check Valves:

Except where noted, check valves in ductile iron line carrying liquid shall be GA Industries Figure 220-DS, Apco Model 250 LW by DeZURI, or equal 150 psi stainless steel (SS) swing check. Shaft and fasteners shall be SS 304 and Body Seat shall be SS 316.

Isolation Valves:

Refer to the City of Middleton's Water Main Specification Section 401 subsection c - Latest Edition for materials associated with this bid item. All valves shall conform to AWWA C509 (cast iron) or C515 (ductile iron) and shall have the following features:

a. Type: Class 150 iron body, non-rising forged bronze stems, resilient seat wedge type with epoxy coating inside.

b. Valve Ends: Mechanical joint with rubber gaskets.

c. Stem Seal: Two O-rings Buna-N or NBR rubber meeting ASTM D2240.

d. Open: Left.

e. Valves shall be designed for direct bury installation on distribution mains.

C (Vacant)

D Measurement

The department will measure 12-Inch Check Valve, 2 12-Inch Isolation Valves and Vault as one complete item with appurtenances and successfully testing and acceptance.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.58	12-Inch Check Valve, 2 12-Inch Isolation Valves and Vault	EACH

Payment is full compensation for furnishing valves and vault; and for excavating, backfilling, and for cleaning out and restoring the site.

120. Cut-In Connection, Item SPV.0060.59.

A Description

This work consists of making a cut-in connection to the existing water main where designated on the drawings according to Section 703.7 or 503.3 of the City of Madison Standard Specifications.

This work consists of making a cut-in connection to the existing water main where designated on the drawings according to section 400 of the City of Middleton Standard Specifications

Any associated concrete capping pipe, mechanical joint capping, plugging, or compression coupling required due the cut-in connection is incidental to this work and must provide a water-tight seal.

B Materials

For City of Madison facilities, conform all materials used for this work to the requirements of section 702 of the City of Madison Standard Specifications for water main cut in connection.

For City of Middleton facilities, conform all materials used for this work to the requirements of section 400 of the City of Middleton Standard Specifications.

For any location where the existing main is cut and capped, either permanently or temporarily, the location of the cap shall be such that no more than one foot of dead end main is created unless shown or called out as such on the plans or approved by the engineer.

C Construction

Conform all work associated with Cut-In Connections to section 703 or 400 of the City of Madison Standard Specifications or City of Middleton Standard Specifications respectively.

D Measurement

The department will measure Cut-In Connections as each cut-in 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.0060.59	Cut-In Connection	EACH

Payment is full compensation for all work to make the cut-in connections, the excavation required to expose the utility line, imported select fill, backfilling and compacting the excavation; and restoring and maintaining the site.

121. Temporary Hydrant, Item SPV.0060.60.

A Description

This work shall consist of furnishing and installing new, temporary fire hydrants as shown on the plans and according to section. City of Middleton Standard Specifications section 100, 200, and 400

Fire hydrants shall conform to AWWA C502 and the Construction Detail Drawing, City of Middleton Standard Detail Hydrant. Consult this Detail Drawing for hydrant heights and setbacks from obstructions.

The temporary hydrant shall involve installing the temporary hydrant prior to adjacent road grading activities occurring this hydrant can be salvaged and reinstalled with City of Middleton water main work.

B Materials

Refer to the City of Middleton's Water Main Specification Section 401 subsection B - Latest Edition or the City of Middleton Standard Detail drawing 401 hydrants, for materials associated with this bid item.

Furnish hydrants with permanently plugged drain ports or hydrants without drain ports where identified on the plans.

C Construction

Hydrants shall be placed according to standard detail drawing at locations shown on the drawings or requested by engineer.

As shown in the plans the temporary hydrant must be installed prior to roadway excavation occurring north of this location because it will lower cover on the existing main to the north and require the removal of the existing high point hydrant to the north. The temporary hydrant will serve as the high point hydrant on the existing water main until the new water main is installed.

D Measurement

The department will measure Temporary Hydrant by each hydrant that is acceptably completed.

This hydrant is not included as part of bid item Abandon Hydrant, SPV.0060.49. Install this hydrant in the temporary condition and then re-use as part of bid item Middleton Furnish and Install Hydrant SPV.0060.46. This item shall address the work and materials required to install and test this hydrant in the temporary location.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.60	Temporary Hydrant	EACH

Payment is full compensation for all work in furnishing and installing the temporary hydrant as specified herein.

122. Construction Staking Water Main, Item SPV.0060.61.

A Description

Work under this item includes construction staking for City of Madison and City of Middleton water main installation. Perform work according to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain a minimum of two construction stakes to establish locations and cover of water main structures according to the plans and details for water main structures. Set and maintain construction stakes to establish location and grade of water main. Provide stakes that establish the horizontal and grade elevation of water main at intervals of 25 feet for a minimum of 100 feet from each structure and at intervals of 50 feet thereafter. Determine offsets in conjunction with contractor requirements. Verify the invert elevations of existing structures which are to remain and be connected into. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

Place additional intermittent stakes as necessary to provide staking information at critical areas such as utility, driveway, roadway, and structure crossings.

D Measurement

The department will measure Construction Staking Water Main as each individual construction staking water main, 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	Construction Staking Water Main	EACH

Payment is full compensation for locating and setting all construction stakes at all locations for water main work; and for relocating and resetting damaged or missing construction stakes.

123. Water Main Dewatering, Item SPV.0060.62.

A Description

This section describes dewatering the site during construction or working with the water on site in a manner that allows the project to be constructed according to the plans and specifications. 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.

Groundwater is expected to be encountered during excavation for utilities. Provide and maintain ample means and devices with which to promptly remove all water entering excavations, trenches, and other parts of the work and keep said excavations dry until the structures to be built therein are completed.

Installation of concrete or masonry structures will not be acceptable if placed in water or if water is allowed to rise over masonry or concrete and there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

The contractor is responsible for all work, materials and equipment required to comply with permit conditions to dewater the site. At a minimum, pump water into a settling tank, or alternate method approved by the engineer, to settle solids prior to discharge into the storm sewer for clean water and into the designated sanitary sewer for potentially contaminated water.

B General

Discharge clean water (of any type or from any source) to the storm sewer system. 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. Separate plans shall be submitted to both Madison contacts and Middleton contacts based off the category in which the work occurs. 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 will 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 according to 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.

Review and approval of the dewatering plan does not relieve the contractor of the dewatering requirements stated in these specifications. The engineer assumes no liability for the performance or safety of the dewatering system.

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. According to 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 according to 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

C Construction

Water shall not be allowed in trenches while pipe is being laid.

No masonry shall be installed in water nor shall water be allowed to rise over masonry or concrete if there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

Dewater in such a manner that assures safe working conditions and provides stable trench side slopes and trench bottom for adequate support of the pipe and appurtenances. Dewater sufficiently to minimize or eliminate groundwater pressures below the proposed trench bottom which otherwise may tend to cause boiling or a "quick" condition at the trench bottom. Where silty sands or other impervious soils are encountered at and/or below the pipe zone, the dewatering equipment must be adequate to relieve the groundwater pressure below the impervious soil layer and accomplish sufficient drainage of the impervious soils to provide a stable trench bottom.

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 storm sewer system. Periodically pump potentially contaminated water from the top of the settling tank into the approved sanitary sewer. Provide a meter to measure the volume of potentially contaminated water discharged to the sanitary sewer system.

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 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. Use only electrically driven pumps for dewatering operations. 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.

The contractor is responsible for removal and/or abandonment of dewatering wells. Removal and/or abandonment shall conform to all state and local regulations.

D Measurement

The department will measure Water Main Dewatering as each individual water main dewatering, 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	Water Main Dewatering	EACH

Payment is considered full compensation for furnishing all work necessary for pumping, measuring of potentially contaminated water, settling and discharging water, both clean and potentially contaminated for all locations of water main work; for paying permit fees required; for eliminating and correcting all flooding or erosion damage caused by dewatering operations.

124. Swallowtail Pond Outlet Control Structure, Item SPV.0060.63.

A Description

This special provision describes providing a stormwater pond control structure on Swallowtail Pond.

B Materials

Furnish materials conforming to standard spec 611 and plan details.

C Construction

Provide shop drawings for the details of the reinforcing steel to the engineer.

Do not place reinforcing until engineer has reviewed the reinforcing shop drawing.

Construct according to standard spec 611 and plan details.

Maintain existing drainage patterns, provide any dewatering and provide materials necessary for temporary connections to existing storm sewer.

D Measurement

The department will measure Swallowtail Pond Outlet Control Structure as each individual Swallowtail Pond Outlet Control Structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.63	Swallowtail Pond Outlet Control Structure	EACH

Payment is full compensation for providing all materials, including all concrete masonry, reinforcing steel, conduit and sewer connections, and other fittings; for all excavating, dewatering, and maintaining drainage during the work; for backfilling, disposing of surplus material, and for cleaning out and restoring the work site, and all incidentals necessary to complete the contract work.

The department will pay separately for the Pyramidal Inlet Grate 8X18.

125. Pond Dewatering Swallowtail Pond, Item SPV.0060.64; Pond Dewatering Pond D, Item SPV.0060.65; Pond Dewatering Pond F, Item SPV.0060.66.

A Description

This section describes dewatering the site during construction or working with the water on site in a manner that allows the project to be constructed according to the plans and specifications. 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.

Groundwater may be encountered during excavation for utilities. Provide and maintain ample means and devices with which to promptly remove all water entering excavations, trenches, and other parts of the work and keep said excavations dry until the structures to be built therein are completed.

Installation of concrete or masonry structures will not be acceptable if placed in water or if water is allowed to rise over masonry or concrete and there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed. Groundwater elevations shall be two feet lower than the subgrade elevation for placement of pond liner clay.

The contractor is responsible for all work, materials and equipment required to comply with permit conditions to dewater the site. At a minimum, pump water into a settling tank, or alternate method approved by the engineer, to settle solids prior to discharge into the storm sewer for clean water and into the designated sanitary sewer for potentially contaminated water.

B General

Discharge clean water (of any type or from any source) to the storm sewer system. 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 will 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 according to 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.

Review and approval of the dewatering plan does not relieve the contractor of the dewatering requirements stated in these specifications. The engineer assumes no liability for the performance or safety of the dewatering system.

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. According to 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 according to 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

File a copy of the permit with the owner 48 hours prior to commencement of any dewatering.

C Construction

Supplement standard spec 205.3 with the following:

Water shall not be allowed in trenches while pipe is being laid. Groundwater elevation shall be two feet lower than the subgrade for pond liner clay installation.

No masonry shall be installed in water nor shall water be allowed to rise over masonry or concrete if there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

Dewater in such a manner that assures safe working conditions and provides stable trench side slopes and trench bottom for adequate support of the pipe and appurtenances. Dewater sufficiently to minimize or eliminate groundwater pressures below the proposed trench bottom which otherwise may tend to cause boiling or a “quick” condition at the trench bottom. Where silty sands or other impervious soils are encountered at and/or below the pipe zone, the dewatering equipment must be adequate to relieve the groundwater pressure below the impervious soil layer and accomplish sufficient drainage of the impervious soils to provide a stable trench bottom.

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 storm sewer system.

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 (3) 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. Use only electrically driven pumps for dewatering operations. Comply with local requirements for noise control for all equipment utilized as part of the dewatering system (Madison General Ordinance 24.08). 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.

If dewatering is necessary to place the pond liner clay, the dewatering shall be maintained until the pond liner clay is completed and the pond is filled with water up to the normal water surface elevation for detention ponds.

The contractor is responsible for removal and/or abandonment of dewatering wells. Removal and/or abandonment shall conform to all state and local regulations.

D Measurement

The department will measure Pond Dewatering as each individual project dewatering, 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	Pond Dewatering Swallowtail Pond	EACH
SPV.0060.65	Pond Dewatering Pond D	EACH
SPV.0060.66	Pond Dewatering Pond F	EACH

Payment is considered full compensation for furnishing all work necessary for pumping, settling and discharging water, and for eliminating and correcting all flooding or erosion damage caused by dewatering operations.

No disposal fees are required by the City of Madison for discharge to the storm sewer system.

126. Transport and Install State Furnished Cameras (USH 14 & Pleasant View Road), Item SPV.0060.67.

A Description

This special provision describes the transporting and installing of department furnished cameras and mounting hardware.

B Materials

Pick up the department furnished cameras, camera processor and mounting hardware at the Southwest Region's electrical shop. Notify the department's electrical field unit to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

Furnish all remaining fasteners and wiring connections as incidental to this item.

C Construction

Install cameras and mounting hardware at locations as shown on the plans. Test and verify that each zone shown on the plans can be detected by each camera, as indicated on the plans. Adjust camera position/orientation as needed to provide detection at all zones shown on the plans. Multiple installations/adjustments may be required and shall be considered incidental to this bid item.

Assistance and support with programming the cameras shall be considered incidental to this item.

Installation and integration of the camera processor shall be considered incidental to this item.

D Measurement

The department will measure Transport and Install State Furnished Cameras (USH 14 & Pleasant View Road) by the 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.0060.67	Transport and Install State Furnished Cameras (USH 14 & Pleasant View Road)	EACH

Payment is full compensation for transporting and installing the state furnished cameras and mounting hardware; and to aim and test each unit to provide a fully operational video detection system.

127. Transport and Install SF Radar Detection System (USH 14 & Pleasant View Road), Item SPV.0060.68.

A Description

This special provision describes the transporting and installing of department furnished Radar Detection System on monotube poles or arms as the plans show and as follows.

B Materials

Pick up the department furnished Radar System and mounting hardware at the Southwest Region's electrical shop. Notify the department's electrical field unit to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

Furnish all remaining fasteners and wiring connections as incidental to this item.

C Construction

Install the department furnished pole/arm mounting brackets, extension arms (if required), and radar units per manufacturer recommendations in the locations determined by the department.

Install the power and communication cable to run continuously (without splices) from the traffic signal cabinet to the pole handhole plus an additional 16-feet in each pull box and an extra 10-feet in the pole handhole. Install the detector unit cable whip from the detector unit to the pole handhole. Splice the detector unit cable whip to the power and communication cable in the pole handhole using the provided junction box.

Mark each end of the lead, in the traffic signal cabinet and each cable in the pole handhole to indicate the equipment label (M1 or M2) on the plans. The department will terminate the ends in the cabinet.

Notify the Region's electrical shop upon completion of the installation and aiming of the radar units.

The department will provide the vendor's contact information. Coordinate directly with the department's radar detection system vendor to arrange for the vendor to program the radar detection system on site. Notify the department and vendor at least five working days prior to the date of programming. Assist the department and vendor with fine adjusting of the radar units during the radar system programming, if necessary.

D Measurement

The department will measure Transporting and Installing SF Radar Detection System (USH 14 & Pleasant View Road) by the 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.0060.68	Transport and Install SF Radar Detection System (USH 14 & Pleasant View Road)	EACH

Payment is full compensation for transporting and installing the state furnished radar detection system, cable, mounting hardware and radar units; and assisting the department and vendor during the radar system programming.

128. Transport and Install State Furnished Blank Out Sign (USH 14 & Pleasant View Rd), Item SPV.0060.69.

A Description

This special provision describes the transporting and installing of department furnished Blank Out Signs as the plans show and as follows.

B Materials

Pick up the department furnished Blank Out Signs at the Southwest Region's electrical shop. Notify the department's electrical field unit to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

Furnish all fasteners and hardware, which shall be corrosion resistant stainless steel, and wiring connections as incidental to this item.

C Construction

Install the department furnished Blank Out Signs per manufacturer recommendations in the locations shown on the plans.

Install the power cable to run continuously (without splices) from the traffic signal cabinet to the pole handhole plus an additional 16-feet in each pull box and an extra 10-feet in the pole handhole.

Mark each end of the lead, in the traffic signal cabinet and each cable in the pole handhole to indicate the equipment label (BOS1, BOS2, etc.) as shown on the plans. The department will terminate the ends in the cabinet.

The existing blank out signs shall be used as part of the temporary signals.

D Measurement

The department will measure Transporting and Installing State Furnished Blank Out Sign (USH 14 & Pleasant View Rd) by the sign, 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.0060.69	Transport and Install State Furnished Blank Out Sign (USH 14 & Pleasant View Rd)	EACH

Payment is full compensation for transporting and installing the state furnished Blank Out Signs, cable and mounting hardware; and assisting the department with programming the operation of the signs.

129. Construction Staking Stormwater Management Ponds, Item SPV.0060.72.

A Description

Perform the work according to the applicable provisions of standard spec 650.3.2 and 650.3.3.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Construction Staking Stormwater Management Ponds as each individual staked 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.0060.72	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 damaged or missing construction stakes.

130. Remove Traffic Signals, Pleasant View Road & Blackhawk Road, Item SPV.0060.73.

A Description

This special provision describes removing and disposal of the existing traffic signal equipment at the intersection of Pleasant View Road and Blackhawk Road. 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 traffic signals can be removed.

Notify the City of Madison Traffic Engineering at (608) 266-4761 at least one week prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

Perform a field review of existing equipment with City of Madison staff for condition of equipment before removal. The City of Madison will identify all items to be removed and salvaged or disposed.

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove all wood poles as indicated per plan. Remove the signal heads, mast arms, luminaries, wiring/cabling and traffic signal mounting devices from each signal standard, arm, or pole. Ensure that access handhole doors and hardware remain intact. Dispose of the underground signal cable, internal

wires and street lighting cable. Removal of concrete footings and pull boxes will be paid for with separate items. Remove the signal cabinet from its footing.

After removal of signal equipment, deliver all salvage materials to the City of Madison, 1120 Sayle Street, Madison, WI 53715

D Measurement

The department will measure Remove Traffic Signals (Location) by each intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Remove Traffic Signals Pleasant View Road and Blackhawk Road	EACH

Payment is full compensation for removing and disassembling traffic signals; properly disposing of scrap material; delivering the requested materials to the City of Madison.

131. Arch Façade Plates, Item SPV.0060.74.

A Description

This special provision describes providing decorative arch façade plates attached to each side of the Prefabricated Steel Truss Pedestrian Bridge B-13-892 to create an accent band along the top chord of the arch truss as shown in the structure plans.

B Materials

Fabricate arch façade plates from steel conforming to ASTM A709. Attachment design and hardware for attachment shall be designed by the prefabricated steel truss pedestrian bridge manufacturer. Paint the arch façade plates according to section 517 of the standard specifications and as noted on the structure plans.

C Construction

Fabrication and construction of the arch façade plates shall be according to the prefabricated pedestrian bridge manufacturer's design and construction methods and as noted on the structure plans.

D Measurement

The department will measure the Arch Façade Plates as each structure, 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.0060.74	Arch Façade Plates	EACH

Payment is full compensation for the custom architectural arch façade including design, fabrication, surface preparation, priming, painting, field repairs, and attachment of an arch façade plate to both sides of the steel truss pedestrian bridge.

132. Field Facilities Special, Item SPV.0060.75.

A Description

This special provision describes furnishing, equipping, and maintaining a field office as required in the contract at engineer-approved locations according to the applicable provisions of standard spec 642.

B Materials

Replace standard spec 642.2.1 (4) with the following:

Provide and maintain suitable interior sanitary facilities conforming to State and local health requirements, in clean and good working condition, provide a weekly cleaning service, and stock with sanitary supplies for the duration of the contract.

Supplement standard spec 642.2.2.1 (3) with the following:

Provide CAT 5 services with a minimum of six CAT 5 receptacles.

Replace standard spec 642.2.2.1 (4) with the following:

Provide and maintain a plain-paper photocopier with scanner with the following characteristics:

- Uses toner, not ink.
- Has auto-feed capability.
- Can copy and scan both 8 1/2” x 11” and 11” x 17” paper.
- Can output a PDF of a copied or scanned document.

Replenish paper, toner cartridges, and other supplies before fully expended.

Add standard spec 642.2.2.1 (6) as follows:

Provide a field office having an adjacent hard surface parking facility with a minimum capacity of 16 passenger vehicles.

Replace standard spec 642.2.2.4 with the following:

Under bid item Field Office Type D, furnish a facility with a minimum interior space of 1,500 square feet including a meeting room that is at least 20 feet by 20 feet; furnish indoor sanitary facilities that are housed within, or directly adjacent to, the field office; clean, maintain, and supply the field office and sanitary facilities weekly; and equip with the following:

- Ten suitable office desks with drawers and locks.
- Ten ergonomically correct office chairs in working condition according to standard spec 642.2.2.1 (4)
- Two four-drawer file cabinets.
- Two four-shelf bookcases.
- Four 2.5 x 5 foot (minimum) tables.
- Four 4 x 8 foot (minimum) tables for the meeting room.
- Twenty, or more folding chairs.

C (Vacant)

D Measurement

The department will measure Field Facilities Special by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.75	Field Facilities Special	EACH

Payment is full compensation for providing, equipping, securing, and maintaining the facility; for providing a weekly cleaning service for the field office and sanitary facilities; for providing sanitary supplies as necessary; for replenishing paper, toner cartridges, and other supplies before fully expended; for maintaining the photocopier/scanner in working order at all times; and for providing and supporting CAT 5 services.

133. Detention Basin Seed Mix, Item SPV.0085.01; Tall Grass Prairie Seed Mix, Item SPV.0085.02.

A Description

This work consists of preparing seed beds, furnishing, and sowing detention pond seed mixtures in accordance the applicable provisions of standard spec 630, as shown on the plans, and as hereinafter provided.

B Materials

B.1 General

Provide all seed according to standard spec 630.2. Provide documentation of seed mixtures to the engineer a minimum of 30 calendar days prior to use.

B.2 Detention Basin Seed Mix

Seed shall be native ecotypes. No improved varieties are allowed. Seed source shall be native ecotypes from Southeast Minnesota, Eastern Iowa, Southern Wisconsin, Or Northern Illinois. Provide a seed mixture at areas shown as wet detention basin seed mix in the plans, conforming to the following species and mixture proportions:

Scientific Name	Common Name	% by weight
Grasses		
Andropogon gerardii	Big Bluestem	8.57
Beckmannia syzigachne	American Sloughgrass	7.71
Bromus ciliatus	Fringed Brome	5.14
Calamagrostis canadensis	Blue Joint Grass	0.34
Carex bebbii	Bebb's Oval Sedge	1.43
Carex comosa	Bristly Sedge	1.43
Carex hystericina	Porcupine Sedge	1.43
Carex lupulina	Common Hop Sedge	1.43
Carex vulpinoidea	Common Fox Sedge	1.43
Carex vulpinoidea	Brown Fox Sedge	1.43
Elymus canadensis	Canada Wild Rye	5.14
Elymus virginicus	Virginia Wild Rye	5.14
Glyceria grandis	Reed Manna Grass	1.43
Juncus effusus	Common Rush	0.71
Juncus interior	Inland Rush	0.29
Panicum virgatum	Switch Grass	1.43
Scirpus atrovirens	Dark-green Bulrush	0.71
Scirpus cyperinus	Wool Grass	0.37
Scirpus validus	Great Bulrush	0.71
Sorghastrum nutans	Indian Grass	9.43
Spartina pectinata	Cord Grass	1.43

Scientific Name	Common Name	% by weight
Forbs		
Acorus calamus	Sweet Flag	1.43
Alisma subcordatum	Mud Plantain	0.71
Allium cernuum	Nodding Onion	1.43
Anemone canadensis	Canada Anemone	0.36
Asclepias incarnata	Swamp Milkweed	5.00
Symphyotrichum novae-angliae	New England Aster	0.71
Doellingeria umbellata	Flat-topped Aster	0.34
Boltonia asteroides	False Aster	0.34
Chelone glabra	Turtlehead	0.57
Eupatorium maculatum	Joe Pye Weed	0.57
Eupatorium perfoliatum	Boneset	0.34
Gentiana andrewsii	Cream/Bottle Gentian Mix	0.71
Helenium autumnale	Sneezeweed	0.71
Heliopsis helianthoides	Early Sunflower	0.71
Hibiscus laevis	Rose Mallow	2.86
Iris virginica	Southern Blue Flag	2.86
Liatris pycnostachya	Prairie Blazing Star	3.57
Lobelia siphilitica	Great Blue Lobella	0.71
Pedicularis lanceolata	Marsh Betony	0.71
Physostegia virginiana	Obedient Plant	0.71
Pycnanthemum virginianum	Mountain Mint	0.71
Rudbeckia hirta	Black-eyed Susan	1.43
Rudbeckia subtomentosa	Sweet Black-eyed Susan	0.36
Rudbeckia triloba	Brown-eyed Susan	1.43
Silphium laciniatum	Compass Plant	2.86
Silphium perfoliatum	Cup Plant	1.43
Silphium terebinthinaceum	Prairie Dock	2.14
Solidago riddellii	Riddell’s Goldenrod	0.71
Solidago ugliginosa	Bog Goldenrod	0.34
Thalictrum dasycarpum	Purple Meadow Rue	2.14
Verbena hastata	Blue Vervain	0.71
Vernonia fasciculata	Common Ironweed	1.43
Veronicastrum virginicum	Culver’s Root	0.34
Zizia aurea	Golden Alexanders	1.43

B.3 Tall Grass Prairie Seed Mix

Seed shall be native ecotypes. No improved varieties are allowed. Seed source shall be native ecotype from Southeast Minnesota, Eastern Iowa, Southern Wisconsin, or Northern Illinois. Provide a seed mixture at areas shown as Short Grass Prairie in the plans, conforming to the following species and mixture proportions:

Scientific Name	Common Name	% by weight
Grasses		
Andropogon gerardii	Big Bluestem	18.72
Elymus canadensis	Canada Wild Rye	12.50
Panicum virgatum	Switch Grass	1.70
Sorghastrum nutans	Indian Grass	15.37
Spartina pectinata	Cord Grass	1.70
Wildflowers		
Symphyotrichum laeve	Smooth Blue Aster	0.85
Symphyotrichum novae-angliae	New England Aster	0.85
Astragalus canadensis	Canadian Milk Vetch	0.43
Baptisia alba	White Wild Indigo	5.11
Arnoglossum atriplicifolium	Pale Indian Plantain	1.70
Eryngium yuccifolium	Rattlesnake Master	7.62
Guara biennis	Biennial Gaura	3.40
Gentiana flavida	Cream Gentian	0.85
Heliopsis helianthoides	Early Sunflower	1.70
Herbaceous perennial	Great St. John’s Wort	0.85
Liatris pycnostachya	Prairie Blazing Star	5.11
Monarda Fistulosa	Wild Bergamot	0.85
Penstemon digitalis	Foxglove Beardtongue	0.85
Echinacea Paradoxa	Yellow Coneflower	1.70
Rudbeckia hirta	Black-eyed Susan	1.70
Rudbeckia subtomentosa	Sweet Black-eyed Susan	0.43
Rudbeckia triloba	Brown-eyed Susan	3.40
Silphium laciniatum	Compass Plant	5.11
Oligoneuron rigidum	Stiff Goldenrod	0.85
Solidago Speciosa	Showy Goldenrod	0.43
Thalictrum dasycarpum	Purple Meadow Rue	3.40
Zizia aurea	Golden Alexanders	2.81

C Construction

Sow seeding mixtures according to standard spec 630.3.3.1.

Use a seeding rate for Detention Basin Seed Mix of 9.53 pounds per acre.

Use a seeding rate for Tall Grass Prairie of 8.00 pounds per acre.

Seeding shall be completed between April 15 and June 15, or between August 15 and September 15, unless otherwise agreed upon with the engineer.

If seeding will be completed between June 15 and August 15, seeding, seed preparation, and methods shall be approved by the engineer and may include provisions for native seed stratification and watering.

If seeding occurs between May 1 and September 15, a nurse crop shall be utilized per standard spec 630.2.1.5.3.

Provide an establishment period for the Seeding Mixture Detention Pond (Type) according to standard spec 630.3.3.6.

D Measurement

The department will measure Seeding Mixture Detention Pond (Type) by the pound, acceptably completed and according to standard spec 630.4.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.01	Detention Basin Seed Mix	LB
SPV.0085.02	Tall Grass Prairie Seed Mix	LB

Payment is full compensation for providing, handling, and storing all seed; for providing the required culture and inoculating seed as specified; for preparing the seed bed, sowing, seeding nurse crop, covering and firming the seed; and for work during the establishment period.

134. No Mow Lawn Seed, Item SPV.0085.03.

A Description

This work consists of furnishing and installing a No Mow Lawn Seed at the locations shown on the plans according to standard spec 630 and as hereinafter provided.

B Materials

Seed shall conform to the following formulation as manufactured by the Prairie Nursery of Westfield, Wisconsin. Any substitution must have prior approval of the engineer.

TABLE 1

NO MOW WITH ANNUAL RYE	ORIGIN/GERM
SR5130 Chewings Fescur-Festuca commutate-23.75%	OR-85%
Sheep Fescue-Festuca Ovina-23.44%	Canada-85%
Chariot Hard Fescue-Festuca longifolia-11.94%	OR-85%
Heron Hard Fescue-Festuca rubra-11.85%	OR-85%
Sea Link Creeping Red Fescur-Festuca rubra-11.82%	OR-85%
SR5250 Creeping Red Fescur-Festuca rubra-11.68%	OR-85%
Annual Ryegrass-Lolium multiflorum-3.95%	OR-90%

1.53% Inert matter

0.02% other crop seed

0.02% Weed seed

C Construction

Do not complete seeding later than September 15 without written approval from the engineer.

Apply a seeding rate for the No Mow Lawn Seed as recommended by the seed mix provider and approved by the engineer. The plans estimate using a rate of 5 lbs/1000 square feet; notify the engineer if a different rate is recommended by seed supplier.

D Measurement

The department will measure No Mow Lawn Seed by the pound, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.03	No Mow Lawn Seed	LB

Payment is full compensation for providing, handling, and storing all seed; for providing the required culture and inoculating seed as specified and as needed; and for preparing the seed bed, sowing, covering and firming the seed; for furnishing and installing all materials, including but not limited to seed.

135. Concrete Curb & Gutter 24-Inch Type A Special, Item SPV.0090.01; Concrete Curb & Gutter 24-Inch Type D Special, Item SPV.0090.02; Concrete Curb & Gutter 30-Inch Type A Special, Item SPV.0090.31; Concrete Curb & Gutter 30-Inch Type D Special, Item SPV.0090.32; Concrete Raised Median Nose Special, Item SPV.0090.03.

A Description

Construct concrete curb and gutter and concrete raised median nose special as shown in the plans, and according to standard spec 601.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Concrete Curb & Gutter (Type) Special and Concrete Raised Median Nose Special by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Concrete Curb & Gutter 24-Inch Type A Special	LF
SPV.0090.02	Concrete Curb & Gutter 24-Inch Type D Special	LF
SPV.0090.03	Concrete Raised Median Nose Special	LF
SPV.0090.31	Concrete Curb & Gutter 30-Inch Type A Special	LF
SPV.0090.32	Concrete Curb & Gutter 30-Inch Type D Special	LF

136. Sign Post, Item SPV.0090.04; Reflective Sign Post, Item SPV.0090.05.

A Description

This special provision describes furnishing and installing new signposts, reflective signposts, and or powder coated signposts for signs. All signposts shall be round tubular steel and installed as shown in the plans.

B Materials

All materials shall conform to the standard specifications for hot rolled carbon sheet steel, commercial quality, ASTM A-570-GR-33 for zinc coated tubing to resist corrosion. The tube shall be 2-inch, Schedule-40. Reflective signpost shall have two sheets of engineer grade yellow sheeting completely around pipe as shown in the plans.

C Construction

Install the signposts at the locations shown on the plans and approved by the engineer. If the finished grade cannot be determined, ask the engineer to identify the final grade. All signs shall be in a true vertical position. Install all signs to conform to the latest edition of the Manual on Uniform Traffic Control Devices. Also, locate all underground utilities prior to placing signposts. Cut off excess length of post in the field to provide the desired sign clearance.

Replace all materials damaged during construction with new items at no cost to the department.

D Measurement

The department will measure Sign Post and Reflective Sign Post by the linear foot, acceptably completed, measured from the top of the thread to the end of the sign post rounded up to the nearest foot.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Sign Post	LF
SPV.0090.05	Reflective Sign Post	LF

Payment is full compensation for furnishing, hauling, and installing the posts; threading; treating cut post ends; providing and installing a watertight top end cap; providing hardware and anchors; and for reflective sheeting.

137. Sawing Curb Head, Item SPV.0090.06.

A Description

This special provision describes sawing curb heads according to the applicable provisions of standard spec 204 and as detailed in the plans.

B (Vacant)

C Construction

Sawcut and remove the curb head from existing asphaltic and concrete curb and gutter. Capture and dispose of the slurry residue created by the sawing.

D Measurement

The department will measure Sawing Curb Head in length 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.0090.06	Sawing Curb Head	LF

Payment is full compensation for sawing curb head; for hauling and disposing of surplus materials; for capturing and disposing of any saw slurry; and for restoring the work site.

138. Abutment Anchorage, Item SPV.0090.07.

A Description

This special provision describes designing, furnishing materials and erecting abutment anchorage according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the abutment anchorage shall be 75 years minimum.

This special provision describes the quality management program (QMP) for abutment anchorage. 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 abutment anchorage, 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 abutment anchorage 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 according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

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 abutment anchorage 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 abutment anchorage. Submit shop drawings to the engineer conforming to standard spec 105.2 with electronic submittal to the fabrication library under standard spec 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 abutment anchorage 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 abutment anchorage 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, the department's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the department's LRFD Bridge Manual and standard engineering design procedures as determined by the department.

Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the abutment anchorage according to 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. The abutment anchorage shall be designed to resist the applied abutment/bridge lateral forces specified on the plans.

Abutment anchorage 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. Abutment anchorage that does not carry highway traffic shall be designed for a live load surcharge of 100 psf according to 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 abutment anchorage 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 plan for the wall adjacent to the abutment.

The design of the abutment anchorage by the contractor shall consider the internal and compound stability of the wall mass according to 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. 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 minimum length of soil reinforcement measured from the back face of the abutment shall be equal to 0.7 of the wall height or as shown on the wall plan for the wall adjacent to the abutment. 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 the abutment. 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 abutment. 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 abutment. The reinforcement and the reinforcement/abutment connection strength shall be designed to resist maximum factored reinforcement loads according to AASHTO LRFD Section 11.10.6. Abutment 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.

B.3 Abutment Anchorage System Components

Materials furnished for abutment anchorage system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the abutment anchorage systems specified in this subsection shall be submitted to the engineer.

B.3.1 Backfill

Furnish and place backfill for the abutment anchorage as shown on the plans and as hereinafter provided. Place backfill in a zone extending horizontally from the back face of the abutment to 1 foot minimum beyond the end of the reinforcement and extending vertically from the bottom of abutment 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.3.2 Soil Reinforcement

All steel portions of the abutment anchorage 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 according to AASHTO M 111 or ASTM A641. Aluminized soil reinforcement shall be according to ASTM A463 Aluminized Type 2-100, SS, Grade 50, Class 2. Design of galvanized soil reinforcement shall be according 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 abutment connections or any other steel portion of the abutment anchorage 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 abutment anchorage shall be according to standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the elevation of the bottom of the abutment 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 abutment.

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 abutment, 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 abutment anchorage 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 abutment. 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 of the abutment. The engineer may order the removal of any large or heavy equipment that may cause damage to the abutment.

C.2 Compaction

Compact all backfill behind the abutment as specified in standard spec 207.3.6 of the standard specification. 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 abutment should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the abutment. 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 Abutment Anchorage Components

C.3.1 General

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 abutment.

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 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.

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 abutment anchorage 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 abutment anchorage 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 each grading site during all abutment anchorage 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:

https://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 ASTM D6938 and CMM 8-15 for density testing and gauge monitoring methods. Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Perform each test for 4 minutes of nuclear gauge count time.

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

(1) 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.

(2) 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.

(3) 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 1 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

(1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project and provide test results to the contractor within 2 business days after the department obtains the sample.

C.4.6.2 Quality Verification (QV) Testing

(1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in 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.

(2) The department will conduct QV tests at the minimum frequency of 30% of the required contractor density, Proctor and gradation tests.

(3) 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.

(4) 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.

(5) 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)

(1) 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.

(2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in 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.

(1) Production test results, and results from other process control testing, may be considered when resolving a dispute.

(2) 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 abutment anchorage is given on the wall plan for the wall adjacent to the abutment, available on the WisDOT Bureau of Structures Highway Structures Information (HSI) website. After completing 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 Abutment Anchorage by the linear foot, acceptably completed, measured as the length of the abutment requiring anchorage.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.07	Abutment Anchorage	LF

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 abutment anchorage components to produce a functional anchorage system; 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 abutment body/backwall and structural approach slab.

139. Fence Chain Link Polymer-Coated 4-FT R-13-362, Item SPV.0090.08; Fence Chain Link Polymer-Coated 4-FT R-13-363, Item SPV.0090.09; Fence Chain Link Polymer-Coated 4-FT R-13-365, Item SPV.0090.11; Fence Chain Link Polymer-Coated 4-FT R-13-366, Item SPV.0090.12; Fence Chain Link Polymer-Coated 4-FT R-13-367, Item SPV.0090.13; Fence Chain Link Polymer-Coated 4-FT R-13-369, Item SPV.0090.14; Fence Chain Link Polymer-Coated 4-FT Landscape Walls, Item SPV.0090.15.

A Description

This special provision describes furnishing and installing a new polymer-coated fence system on structures in conforming to the pertinent plan details and as directed by the engineer. The color of all components in this fence system shall be the same and shall be as specified on the plans.

B Materials

All materials for this fence system shall be new stock, free from defects impairing strength, durability, and appearance. Fabric shall be produced by methods recognized as good commercial practice. Wire used in the manufacture of the fabric shall be capable of being woven into fabric without the polymer-coating cracking or peeling. Pipes used in framework shall be straight, true to section and free of defects. All burrs at the ends of pipes shall be removed before galvanizing. The polymer-coating shall be a dense impervious covering, applied without voids, tears or cuts that reveal the substrate. Excessive roughness, bubbles, blisters and flaking in the polymer-coating will be a basis for rejection.

B.1 Fabric

Provide steel chain link fence fabric conforming to the requirements of ASTM F668, Class 2b, a polymer-coating fused and adhered to wire that is zinc-coated. Provide fabric woven from 9-gage wire using plan specified mesh size, diamond pattern, with both the top and bottom selvages knuckled. The minimum breaking strength of the wire shall be 1290 lbs. The color of polymer-coating shall conform to the requirements of ASTM F934.

B.2 Framework

Provide steel rails, posts and post sleeves conforming to the requirements of ASTM F1083, Standard Weight Pipe (Schedule 40) of the size (O.D.) and weight as shown on the plans. The minimum yield strength shall be 30,000 psi and the minimum tensile strength shall be 48,000 psi. These components shall be zinc-coated inside and outside by the hot-dip process as stated in ASTM F1083. Provide polymer-coating over zinc-coating conforming to ASTM F1043. The color of polymer-coating shall conform to the requirements of ASTM F934, and match the color of the other fence components. Weld base plate to posts or post sleeves and complete any additional welding of components before galvanizing.

B.3 Fittings

Provide end post caps, line post caps, top rail sleeves, rail ends, line rail clamps, brace bands, tension bands, tension bars, and tie wires that are steel and conform to the requirements of ASTM F626. Tie wires shall be round and 9-gage wire. These components (excluding tie wires) shall be zinc-coated by the hot-dip process as stated in ASTM F626. Provide polymer-coating over zinc-coating on components (excluding tie wires) that conforms to the requirements of ASTM F626. For tie wires, provide polymer-coating on wire that is zinc-coated using the same procedure as used for the wires in the fence fabric. End post caps and line post caps shall fit tightly over posts to prevent moisture intrusion. Supply dome style caps for end posts and loop type caps for line posts. The color of polymer-coating shall conform to the requirements of ASTM F934, and match the color of the other fence components.

B.4 Bolts

All bolts are to be supplied with lock washers and nuts. Use galvanized steel bolts, nuts and washers per plan details.

B.5 Tests

B.5.1 Fabric and Tie Wire

Breaking Strength: ASTM A370

Zinc-Coating Requirements

Weight of Zinc-Coating: ASTM A90

Polymer-Coating Requirements

Thickness of Polymer-Coating: ASTM F668

Adhesion: ASTM F668

Accelerated Aging Test: ASTM F668, D1499

Mandrel Bend Test: ASTM F668

B.5.2 Framework

Tensile and Yield Strength: ASTM E8

Zinc-Coating Requirements

Weight of Zinc-Coating: ASTM A90

Polymer-Coating Requirements

Thickness of Polymer-Coating: ASTM E376

Adhesion: ASTM F1043

Accelerated Aging Test: ASTM F1043, D1499

B.5.3 Fittings

Zinc-Coating Requirements

Weight of Zinc-Coating: ASTM A90

Polymer-Coating Requirements

Thickness of Polymer-Coating: ASTM F626

Adhesion: ASTM F1043 (same test as for framework)

Accelerated Aging Test: ASTM F1043, D1499 (same test as for framework)

B.6 Submittals

In addition to the engineer, send submittals listed in this section to the name below for informational purposes:

David Nelson
WisDOT (Bureau of Structures)
4822 Madison Yards Way
Madison, WI 53705

B.6.1 Shop Drawings

Submit shop drawings showing the details of fence construction. Show the fence height, post spacing, rail location, and all dimensions necessary for the construction of the chain link fence. Label the end posts, line posts, rails, post sleeves, top rail sleeves, bolts and fittings. State the polymer-coating type used on the fabric, framework and fittings and the Class of coating used on the fabric. State the color of polymer-coating to be used on the fence components. For the fabric, state the wire gage, mesh size, and type of selvages used. For the framework, state the size (O.D.) and unit weight for the posts and rails. For the fittings, state the size for top rail sleeves, brace bands, tension bands, tension bars, line rail clamps, size and type of bolts, and the tie wire gage. State the material type used for fabric, framework, and fittings. Also give the breaking strength for the fabric wire and the tensile and yield strength properties for the framework.

B.6.2 Specification Compliance

Submit certification of compliance with material specifications. Provide material certification and test documentation for fabric, framework, fittings and hardware that shows that all materials meet or exceed the specifications of this contract and the tests in section B5 of this specification. This document shall provide the name, address and phone number of the manufacturer, and the name of a contact person.

C Construction

C.1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and condition of materials is in conformance with these specifications. If polymer-coating is damaged, contractor shall repair or replace components as necessary to the approval of the engineer at no additional cost. Carefully store material off the ground to ensure proper ventilation and drainage and to provide protection against damage caused by ground moisture. Handle all polymer-coated material with care.

C.2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to polymer-coated surfaces, touch-up the finish conforming to the manufacturer’s recommendations. Provide touch-up coating such that repairs are not visible from a distance of 6-feet. If damage is beyond repair, the fencing component shall be replaced at no additional cost. Provide the engineer with a copy of the manufacturer’s recommended repair procedure and materials before repairing damaged coatings.

C.3 General

Install the chain link fence conforming to ASTM F567 and the manufacturer’s instructions. Provide staff that is thoroughly familiar with the type of construction involved and materials and techniques specified. Chain link fabric shall be installed on the side of the posts indicated on the plans. Fabric shall be attached to the end posts with tension bars and tension bands. It shall be attached to rails, and posts without tension bands, with tie wires. The fabric shall be installed and pulled taut to provide a smooth and uniform appearance free from sag, without permanently distorting the fabric diamond or reducing the fabric height. Install top rail to pass through line post caps and form a continuous brace between end posts. Minimum length of top rail between splices shall be 20-feet. Splice top rail at joints with sleeves for a rigid connection. Locate splices near 1/4-point of post spacing. Heads of bolts shall be on the side of the fence adjacent to pedestrian traffic.

D Measurement

The department will measure Fence Chain Link Polymer-Coated 4-FT (structure) by the linear foot acceptably furnished and installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.08	Fence Chain Link Polymer-Coated 4-FT R-13-362	LF
SPV.0090.09	Fence Chain Link Polymer-Coated 4-FT R-13-363	LF
SPV.0090.11	Fence Chain Link Polymer-Coated 4-FT R-13-365	LF
SPV.0090.12	Fence Chain Link Polymer-Coated 4-FT R-13-366	LF
SPV.0090.13	Fence Chain Link Polymer-Coated 4-FT R-13-367	LF
SPV.0090.14	Fence Chain Link Polymer-Coated 4-FT R-13-369	LF
SPV.0090.15	Fence Chain Link Polymer-Coated 4-FT Landscape Walls	LF

Payment is full compensation for fabricating, galvanizing and polymer-coating all fence components, and transporting to jobsite; and for erecting components to create a polymer-coated fence system, including any touch-up and repairs.

140. Storm Sewer Pipe PVC 10-Inch, Item SPV.0090.16.

A Description

This special provision describes furnishing and installing Poly Vinyl Chloride (PVC) storm sewer pipe.

B Materials

Provide solid-wall PVC storm sewer pipe and fittings meeting the requirements of ASTM D 3034.

Provide pipe and fittings having a standard dimension ratio of 26 or 35.

Assemble solvent cement joints using solvent cement obtained from the pipe manufacturer, which conforms to the requirements of ASTM D2564.

The assembled joint must pass the performance tests as required in ASTM D3212.

Provide ASTM D3034 SDR-26 pipe for storm sewer mains deeper than 12 feet.

C Construction

Install PVC storm sewer pipe according to the applicable provisions of standard spec 520, at the alignment and grades shown on the plans.

Install pipe fittings according to the manufacturer’s recommendation.

D Measurement

The department will measure Storm Sewer Pipe PVC (size) 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.0090.16	Storm Sewer Pipe PVC 10-Inch	LF

Payment is full compensation for providing all materials, including fittings; for all excavating except rock excavation; for forming the foundation; providing and removing sheeting and shoring; for laying pipe and sealing joints, and making connections to new or existing fixtures; and for backfilling, for providing granular backfill material, including bedding material.

141. Trenchless Storm Sewer Construction, 48-Inch, Item SPV.0090.17; Trenchless Storm Sewer Construction, 12-Inch, Item SPV.0090.10.

A Description

This special provision consists of furnishing and installing storm sewer pipe using trenchless methods of construction as shown in the plans and as hereinafter provided.

The trench for installation of storm sewer pipe will not be open-cut.

B Materials

Provide class V reinforced concrete storm sewer pipe, conforming to standard spec 608.

If utilized, provide steel casing pipe conforming to ASTM A53, Grade B Steel Pipe, 35,000 psi minimum yield, with a minimum wall thickness of 0.469 inches. Provide a steel casing pipe that has an inside diameter that exceeds the outside diameter of the carrier pipe by a minimum of 4 inches. Provide class V reinforced concrete storm sewer pipe conforming to standard spec 608 if steel casing pipe is utilized.

Provide concrete slurry or blown sand in the casing pipe voids.

Verify the locations of all utilities prior to commencing with the construction. Protect all existing utilities from damage as a result of construction operations. The contractor is responsible for any utility damaged as a result of the equipment or methods used for the trenchless storm sewer construction.

C Construction

Establish reference point and benchmarks required to control construction of pipe to elevations and locations indicated on drawings.

Excavate access pit, shaft or approach according to standard spec 206 and provide fall protection for the public according to local, state, and federal regulations.

Install the storm sewer pipe by tunneling, boring, jacking, or boring and jacking or other approved methods not using open-cut construction techniques. Complete installation according to State Laws, municipal ordinances, and any permit requirements. If a casing pipe is utilized, weld joints with a continuous circumferential weld. Provide stress transfers across joints capable of resisting jacking forces applied.

Stockpile all storm sewer pipe and casing pipe (if utilized) onsite before installation begins. Once installation operations have started, complete the construction of the entire length of pipe without interruption.

Attach pipe to concrete brick supports to be used as a carrier for insertion into casing (if utilized). Support and brace pipe to prevent shifting or flotation during filler material placement.

Install pipe filler at the top of the seal at the low end of the casing and a vent pipe at the top of the seal at the other end. Add slurry or sand to the void between the casing pipe and the carrier pipe until slurry flows from the vent pipe or the angular space is filled with sand.

Backfill casing pipe ends according to standard spec 206 and restore surface to original grade.

Demonstrate to satisfaction of the department that the entire length of the casing has been backfilled.

D Measurement

The department will measure Trenchless Storm Sewer Construction (size) in length 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.0090.17	Trenchless Storm Sewer Construction, 48-Inch	LF
SPV.0090.10	Trenchless Storm Sewer Construction, 12-Inch	LF

Payment is full compensation for providing all materials, including carrier pipe, steel casing pipe, and connections; for all excavating except rock excavation; for sheeting and shoring; for protecting drop offs; for laying pipe; for sealing joints and making connections to new or existing fixtures; for filling annular space and constructing bulkheads; for backfilling; for providing granular backfill material; for removing sheeting and shoring; and for cleaning out and restoring the worksite.

142. Sanitary Sewer Pipe PVC, 8-Inch, Item SPV.0090.18; Sanitary Sewer Pipe PVC, 10-Inch, Item SPV.0090.19.

A Description

This special provision describes installing Sanitary Sewer Pipe PVC (Size) at the alignment and grades shown on the plan. All sections of the sewer mainline are required to pass a low pressure air test, mandrel test, and a visual inspection via televising as specified in the City of Middleton Standard Specifications section 100, 200, and 500. Testing of the gravity main is included in this item.

Maintain the normal flow of wastewater at all times during replacement of the existing sanitary sewer main with the new sanitary sewer main. Payment for furnishing all bypass pumping, temporary piping, and/or temporary connections, which are required to maintain the normal flow of wastewater throughout the sewer construction, is under the bid item for Wastewater Control. It is not anticipated that the installation of either 8-inch or 10-inch main work will require Wastewater Control.

B Materials

Polyvinyl Chloride (PVC) Gravity:

Solid Wall PVC:

Polyvinyl Chloride (PVC) pipe fittings shall meet the requirements for type PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings of ASTM D3034 for pipe sizes up through 15 inches and ASTM F679 for pipe sizes 18 inches through 36 inches. All PVC sanitary sewer pipe shall have a maximum standard dimension ratio (SDR) of 26.

The wall thickness shall conform to requirements for a T-1 wall per ASTM F69-01. PVC material shall have cell classification 12454-B or 12454-C as defined in ASTM D1784 with minimum modulus of elasticity of 400,000 psi in tension. Pipe stiffness shall be minimum 46 psi when tested according to ASTM D2412.

Acceptance of piping shall be subject to tests conducted by an approved testing agency.

Pipe and fittings shall be the product of one manufacturer and the manufacturer shall have experience records substantiating acceptable performance of the pipe to be furnished.

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. Fittings shall be injection molded PVC.

Joints shall be of the elastomeric type. 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.

C Construction

Install the sanitary sewer pipe according to City of Middleton Standard Specifications section 100, 200, and 500. Any pipe material determined defective or damaged upon delivery to the site shall not be install.

D Measurement

The department will measure Sanitary Sewer Pipe PVC, (Size) in length by the linear foot, acceptably completed.

Sanitary Sewer Mains. Sanitary sewer mains shall be measured by length in feet of each of the various types and sizes of pipe installed. Measurements shall be along the centerline of the pipe center to center of manholes or to connection to existing sewer, including fittings. Construction through manholes shall be included in the length measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.18	Sanitary Sewer Pipe PVC, 8-Inch	LF
SPV.0090.19	Sanitary Sewer Pipe PVC, 10-Inch	LF

Payment is full compensation for dewatering, excavation, bedding, sewer mains, laterals, cover, insulation, backfilling, installation, casting adjustment, testing and restoration as specified herein.

143. Select Fill for Sanitary Sewer, Item SPV.0090.20.

A Description

This special provision describes furnishing and placing select fill over the sanitary sewer main and laterals along the entire length of the pipe for sanitary sewer installation.

B Materials

Provide select fill meeting the requirements the City of Middleton Standard Specifications section 100, 200, and 500.

C Construction

Install select fill for sanitary sewer according to the City of Middleton Standard Specifications section 100, 200, and 500.

D Measurement

The department will measure Select Fill for Sanitary Sewer in length by the linear foot, acceptably completed. Measurement will be completed along the centerline of the installed sanitary sewer pipe and includes the length through Sewer Access Structures.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.20	Select Fill for Sanitary Sewer	LF

Payment is full compensation for furnishing and placing select fill for sanitary sewer pipe.

144. 10-Inch Diameter Sanitary Sewer Inside Casing, Item SPV.0090.21.

A Description

The special provision describes installing sanitary sewer with engineered spacers within steel casing pipe by open cutting.

B. Materials

Provide select fill according to the Select Fill for Sanitary Sewer.

Provide all materials necessary to install sanitary sewer within steel casing pipes via open cutting. Provide steel casing pipe, sized to provide a minimum of 24-inch diameter casing for a 10-inch sanitary sewer. Provide steel casing pipe adequately sized to allow for the complete installation of the carrier pipe to the elevations and slopes as shown in the plans. Oversizing the casing pipe is not recommended in this application due to the limited separation between the casing pipe and the adjacent proposed storm sewer improvements.

Provide steel casing pipe meeting the following standards:

- ASTM specification A139 Grade B or AWWA specification C200.
- Outside diameter as specified by the contractor.
- Not coated or cathodically protected, no hydrostatic testing required.
- 0.3750” minimum thickness for 24-inch diameter casing.
- Specified minimum yield strength, SMYS, of at least 35,000 psi.
- New and unused pipe.
- Straight and round pipe.
- Beveled ends for butt welding.

Provide two-piece stainless steel pipe spacers meeting the following requirements:

- Stainless Steel Band
    - 8-inches wide stainless steel with 2-inch wide glass reinforced polymer runners
    - 14 Gauge (0.074-inch) thickness
    - 100 percent 304 stainless steel
- Polyvinylchloride (PVC) liner
    - Thickness: 0.090
    - Hardness: Durometer “A” 85-90
    - Dielectric Strength
    - Water Absorption: 1 percent maximum
    - Functional Temperature Range: - 40F to 170F
- Risers
    - 10 Gauge (0.135”) thickness
    - 100% 304 Stainless Steel, MIG welded to the band
- Hardware
    - 8-inch stainless steel band with 6 studs, 12 nuts and washers
    - Threaded Studs: 5/16-inch - 18-inch X 2.5-inch 304 stainless steel or plated
    - Hex Nuts: 5/16-inch hex nuts
    - Washers: 5/16-inch SAE 2330

Provide sanitary sewer carrier pipe meeting the requirements of Sanitary Sewer, 10-inch.

- Provide pre-manufactured synthetic rubber casing/carrier end seals with stainless steel bands.

C Construction

Submit the following documents to the engineer and the City of Madison for approval prior to ordering of materials and the start of construction:

- Certificate of compliance for the steel casing pipe.
- Pipe loading calculations for steel casing pipe.
- Sieve analysis and material specification for sand or limestone screenings for filling of annular space between carrier pipe and casing pipe.
- Materials specification for casing spacers and end seal seals.
- Casing spacer design and layout plan.
- Site security plan.
- Design and mix for slurry and installation plan for filling voids between the casing pipe and surrounding soil.

Fill any voids between casing pipe and surrounding soil with slurry conforming to Type B slurry mix as specified in Article 301.9 of the City of Madison Standard Specifications for Public Work Construction - Latest Edition.

Connection of adjacent lengths of steel pipe shall be done by continuous, circumferential, field butt welding according to AWWA C206. The connection shall result in a straight and true casing with a watertight seal.

Prior to installing the carrier pipe inside of the casing pipe, install spacers per manufacture's recommendations at maximum 8 foot spacing and within 2 feet of both ends of the casing pipe on all carrier pipe. Install sand or pea gravel into the annular space between the carrier pipe and the casing pipe up to the spring line of the carrier pipe to provide bedding under the carrier pipe, as directed by the City of Madison. Install end seals at each end of the casing pipe per manufacturer's instructions.

Take care to ensure that developed thrust pressures do not disturb existing utilities in or around the bore pit area. Any damage to utilities- public or private will be the responsibility of the contractor to repair.

D Measurement

10-Inch Diameter Sanitary Sewer Inside Casing shall be measured by the linear foot for successful completion of the 10-Inch sanitary sewer pipe and larger casing pipe as described above. Any sewer replacement beyond the limits of the casing pipe and including potential connections to existing sanitary sewer access structure shall be included with the linear foot cost of the casing with carrier pipe quantity.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.21	10-Inch Diameter Sanitary Sewer Inside Casing	LF

Payment is full compensation for dewatering, excavation, shoring: for installation of the steel casing pipe, installation of the carrier pipe inside the casing pipe with casing spacers as described, and filling on the annular space between carrier pipe and casing pipe; for installing end seals on the finished installation; for excavation for installing grout between casing pipe and surrounding soil, backfilling, compaction, disposal of excess materials, and restoration of the site; for protection or replacement of existing structures and utilities, and site security.

Select Fill for Sanitary Sewer will be paid separately.

145. Water Main 20-Inch Casing Pipe, Item SPV.0090.22; Water Main 12-Inch Trenchless Water Main, Item SPV.0090.23.

A Description

Work under these items shall include furnishing and installing a 12-inch diameter water main inside of a casing pipe. The casing pipe must be sized by the contractor in order for the carrier pipe to properly fit within the casing pipe. A minimum casing pipe diameter of 20-inch shall be furnished, but a larger diameter casing pipe can be permitted if contractor sizes indicate such.

Backfilled material shall meet City of Middleton Standard Specifications Section 200. Necessary work and materials to adequately secure the pits with full cover or security fencing shall be included with this bid item.

B Materials

Trenchless Installation shall include all materials necessary to install the 12-inch diameter water main according to the requirements above. A casing pipe included with this item shall be according to the following:

- ASTM specification A139 Grade B or AWWA specification C200.
- Outside diameter as specified by the contractor.
- Not coated or cathodically protected, no hydrostatic testing required.
- 0.4375" minimum thickness (See chart on Sheet U-1 for casing thickness requirements).
- Specified minimum yield strength, SMYS, of at least 35,000 psi.
- New and unused pipe.
- Straight and round pipe.
- Beveled ends for butt welding.

Submit the following to the engineer for approval prior to ordering of materials and the start of construction:

- Certificate of compliance for the steel casing pipe.
- Materials for sand or pea gravel.
- Materials for casing spacers and distances between spacers.
- Materials and methods for bulkheading the casing ends.
- Pipe loading calculations for steel casing pipe.
- Materials specification for casing spacers and end seal seals.
- Casing spacer design and layout plan.
- Boring and receiving pits excavation and soil retention design and plan.
- Site security plan.

The 12-inch trenchless water main installed through the casing pipe shall be installed such that all push joints through the casing pipe are restrained joints. The contractor may utilize either Series 1100 HD Split MEGALUG Restraint Harnesses or US Pipe TR FLEX Restrained Joint Pipe to achieve joint restraints. The contractor shall install the trenchless water main in a manner which does not over insert push joints. Gaskets damaged from over insertion shall be replaced and any cost associated with this replacement shall be incurred by the contractor.

C Construction

Contractor will be allowed to use wood blocking and/or pipe spaces to suspend the pipe in casing pipe. Both will be considered acceptable installation methods.

Blocking Method:

Prior to installing pipe in the casing, a set of four wood blocks shall be strapped to both ends of the pipe 5 feet from each end. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. Sand or pea gravel shall be washed or blown into the casing to the spring line of the pipe to provide bedding under the pipe.

Pipe Spacers Method:

Centered stainless steel spacers (PSI S8GN-2 http://www.pipelineseal.com/pdf_lit/csem&bg.pdf or approved equivalent) shall be installed in the casing pipe. Spacers shall be installed according to the manufacturer's specifications with maximum spacing of 8 feet.

Connection of adjacent lengths of steel pipe shall be done by continuous, circumferential, field butt welding according to AWWA C206. The connection shall result in a straight and true casing with a watertight seal.

The carrier pipe shall be installed on line and grade through the casing pipe. Install approved casing spacers at the approved distances. Fill the annular space between the casing and carrier pipe with the approved material (sand or pea gravel).

Take care to ensure that developed thrust pressures do not disturb existing utilities in or around the bore pit area. Any damage to utilities- public or private will be the responsibility of the contractor to repair.

D Measurement

The department will measure Water Main 20-Inch Casing Pipe by the linear foot, acceptably completed and 12-Inch Trenchless Water Main 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.0090.22	Water Main 20-Inch Casing Pipe	LF
SPV.0090.23	12-Inch Trenchless Water Main	LF

Payment is full compensation for dewatering, excavation, shoring: for installation of the steel casing pipe, installation of the carrier pipe inside the casing pipe with casing spacers as described, and filling on the annular space between carrier pipe and casing pipe; for installing end seals on the finished installation; for excavation for installing grout between casing pipe and surrounding soil, backfilling, compaction, disposal of excess materials, and restoration of the site; for protection or replacement of existing structures and utilities, and site security.

146. Furnish and Install Water Main Pipe & Fittings-City of Madison 6-Inch, Item SPV.0090.24; Furnish and Install Water Main Pipe & Fittings-City of Madison 12-Inch, Item SPV.0090.25.

A Description

Furnish and install water main pipe and fittings of the size and type specified in the plans, these specifications and according to section 704.3 of the City of Madison Standard Specifications.

B Materials

Furnish restrained joint ductile iron pipe manufactured according to the requirements of ANSI/AWWA C151/A21.51. Push-on joints for such pipe must be according to ANSI/AWWA C111/A21.11 "Rubber-Gasket Joints for Ductile-Iron Pipe and Fittings." Pipe must be designed according to ANSI/AWWA C150/A21.50 "Thickness Design of Ductile-Iron Pressure Pipe." Use thickness class 52 pipe.

Cement mortar lining and seal coating for pipe and fittings, where applicable, must be according to ANSI/AWWA C104/A21.4. Asphaltic outside coating shall be according to ANSI/AWWA C151/A21.51 for pipe and ANSI/AWWA C110/A21.10 or ANSI/AWWA C153/A21.53 for fittings. Restrained push-on joints for pipe must be designed for a working pressure of 350 psi.

Furnish mechanical joint ductile iron pipe fittings according to section 702 of the City of Madison Standard Specifications.

C Construction

Install water main pipe and fittings according to manufacturer's recommendations and sections 703 and 704.21(3) of the City of Madison Standard Specifications. Maintain all required clearances with other facilities.

D Measurement

The department will measure Furnish & Install Water Main Pipe & Fittings-City of Madison (Size) by the linear foot, acceptably completed.

All fittings and gaskets, shown on the plan set and those required on hydrant leads per the General Provisions for City of Madison Water Main are included in the linear foot price for Water Pipe and Fittings.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.24	Furnish and Install Water Main Pipe & Fittings-City of Madison 6-Inch	LF
SPV.0090.25	Furnish and Install Water Main Pipe & Fittings-City of Madison 12-Inch	LF

Payment is full compensation for furnishing and installing water main piping and fittings; all water main testing, and any temporary flushing hydrants required for traffic staging.

147. Furnish and Install Water Main Pipe & Fittings-City of Middleton 6-Inch, Item SPV.0090.26; Furnish and Install Water Main Pipe & Fittings-City of Middleton 10-Inch, SPV.0090.27; Furnish and Install Water Main Pipe & Fittings-City of Middleton 12-Inch, SPV.0090.28.

A Description

Furnish and install water main pipe and fittings of the size and type specified in the plans, these specifications and according to sections 200 and section 400 of the City of Middleton Standard Specifications.

B Materials

Pipe and Fittings:

Refer to the City of Middleton's Water Main Specification Section 401 subsection A - Latest Edition for materials associated with this bid item.

C Construction

A. Water main construction shall consist of all excavation materials, installation, restoration, and related work as specified herein or shown on the drawings.

B. Comply with requirements of Sections 200 and 600 of the City of Middleton's Specifications, and with NR 811.74 for all water main construction.

C. Foreign material must not be allowed to enter the pipe while it is being installed.

D. Unless otherwise directed, pipe must be placed with bell end facing in the direction of the laying.

E. Whenever it is necessary to deflect pipe from a straight line, either in the vertical or horizontal plane, to avoid obstructions or to plumb stems or where long radius curves are provided, the amount of deflection allowed shall not exceed that recommended by pipe manufacturer and approved by engineer.

F. For pipelines intended to be straight, deviation from the line shall not exceed 1-inch.

G. Where water main crosses sanitary or storm sewer, the water main pipe shall be laid so that joints are approximately one half of one pipe length distant from the sewer.

H. All bends, tees, plugs, and fittings shall be provided with thrust restraint using retainer glands with mechanical joints as indicated in Section 401 subsection A of the City of Middleton's Water Main specification. Thrust restraint shall be provided for all joints within 20 feet of the above items.

I. Restraining wedges shall be positioned against piping with torque limiting twist off nuts. All nuts shall be tightened to 100-120 foot-pounds prior to applying additional torque to twist off nuts.

J. Except as modified herein, all pressure pipe shall be installed according to AWWA C600 for ductile iron pipe.

D Measurement

The department will measure Furnish & Install Water Main Pipe & Fittings-City of Middleton (Size) by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.26	Furnish and Install Water Main Pipe & Fittings-City of Middleton 6-Inch	LF
SPV.0090.27	Furnish and Install Water Main Pipe & Fittings-City of Middleton 10-Inch	LF
SPV.0090.28	Furnish and Install Water Main Pipe & Fittings-City of Middleton 12-Inch	LF

Payment is full compensation for furnishing and installing water main piping and fittings; all water main testing, and any temporary flushing hydrants required for traffic staging; dewatering, excavation, bedding, water main, fittings, thrust restraint, conductivity connections, polyethylene wrap, cover, insulation, backfilling, installation, testing and restoration as specified herein.

148. Select Fill for Water Main, Item SPV.0090.29.

A Description

This special provision describes furnishing and placing select fill backfill over the water main along the entire length of the pipeline according to section 704.8 of the City of Madison Standard Specifications.

This special provision describes furnishing and placing select fill backfill over the water main along the entire length of the pipeline according to sections 200 and section 400 of the City of Middleton Standard Specifications.

B Materials

For City of Madison facilities, provide Select Fill for Water Main meeting the requirements of section 202.2 (b) and section 703 of the City of Madison Standard Specifications

For City of Middleton facilities, provide Select Fill for Water Main meeting the requirements of section 200 and section 400 of the City of Middleton Standard Specifications.

C Construction

For City of Madison facilities, place Select Fill for Water Main according to section 703 of the City of Madison Standard Specifications

For City of Middleton facilities, place Select Fill for Water Main according to section 200 and section 400 of the City of Middleton Standard Specifications.

D Measurement

The department will measure Select Fill for Water Main 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.0090.29	Select Fill for Water Main	LF

Payment is full compensation for furnishing and placing select fill for water main.

149. Parapet Concrete Type 'TX', Item SPV.0090.30.

A Description

This special provision describes construction of a parapet type 'TX'.

B Materials

B.1 Concrete

Use concrete conforming to standard spec 502.

B.2 Reinforcing Steel

Use reinforcing steel conforming to standard spec 505.

B.3 Polypropylene Fibers

Use engineered synthetic reinforcing fibers of 100% polypropylene collated fibers with the following physical properties.

Specific Gravity:	0.91
Denier:	Less than 100
Modulus of Elasticity:	$0.5x10^6$ to $0.7x10^6$ psi
Tensile Strength:	70 to 110 ksi
Length:	1/2 to 2-1/2 inches

Obtain written verification from the original manufacturer of the polypropylene fibers that all polypropylene fibers are specifically manufactured for use in concrete from virgin polypropylene and the physical properties are within the limits specified above.

C Construction

The polypropylene fiber manufacturer or authorized distributor shall provide the services of a qualified engineer or employee for a pre-construction meeting and initial job start up.

Use polypropylene fibers at a rate of 1.5 to 1.6 pounds per cubic yard of concrete. Fibers may be added with the fine and coarse aggregates or in the mixer after all ingredients have been blended and mixed per the manufacturer's recommendations.

D Measurement

The department will measure Parapet Concrete Type ‘TX’ by the linear foot of parapet, 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.0090.30	Parapet Concrete Type ‘TX’	LF

Payment for Parapet Concrete Type ‘TX’ is full compensation for furnishing and placing parapet type ‘TX’.

150. Fiber Optic Cable 144-Count, Item SPV.0090.33.

A Description

This special provision describes furnishing and installing 144-count as specified in standard spec 651, 655, 670, and 678, as shown in the plans, and as provided hereinafter.

B Materials

Furnish single mode (SM), lt armored, loose-tube 144-count fiber optic cable rated for outdoor use.

All fiber optic cable glass shall be supplied by the same manufacturer and shall be part of a fiber optic cable utilizing loose tube construction with the following properties

TABLE 1

PARAMETERS	SINGLE MODE
Type	Step Index
Core Diameter	8.3 µm (nominal)
Cladding Diameter	125 ± 1.0 µm
Core to Cladding Offset	≤0.8 µm
Coating Diameter	245 ± 10 µm
Cladding Non-Circularity	≤1.0%
Proof Tensile Test	0.7 GPa
Attenuation	@ 1310 nm ≤ 0.4 dB/km @ 1550 nm ≤ 0.3dB/km
Chromatic Dispersion Zero Dispersion	1310 ± nm (centered on a nominal operating wavelength of 1310)
Zero Dispersion Slope	≤ 0.092 ps/nm^2/km
Maximum Dispersion	≤ 2.8 ps/nm/km at 1285 - 1330 nm
Cut-Off Wavelength	1260 nm

C Construction

Follow all manufactures recommended installation procedures. Contact the Electrical Operations Lead Worker at the City of Madison Traffic Engineering Shop, (608) 266-9031 a minimum of 7 working days in advance to coordinate installing equipment in existing traffic signal cabinet.

D Measurement

The department will measure Fiber Optic Cable 144-Count 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.0090.33	Fiber Optic Cable 144-Count	LF

Payment is full compensation for furnishing and installing the fiber optic cable.

151. Marking Line Epoxy 6-Inch, Item SPV.0090.34.

A Description

Perform the work under this item as shown in the plans and according to the applicable provisions of standard spec 646.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Marking Line Epoxy 6-Inch by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.34	Marking Line Epoxy 6-Inch	LF

152. Milling and Removing Longitudinal Joint, Item SPV.0090.35.

A Description

This special provision describes providing milling and removing HMA pavement, including sweeping and cleaning, to provide a clean butt joint for paving additional final pavement lanes during later stages.

B (Vacant)

C Construction

Immediately prior to placement of the adjoining lane, mill the surface layer of the additional pavement width of pavement placed during the preceding stage to a true line with a perpendicular face to the asphaltic pavement.

Clean the resulting to be free of millings, dirt and debris to the requirements for tack coat and HMA paving. Haul the removed pavement material from the right-of-way and dispose of according to standard spec 204.3.1.3.

D Measurement

The department will measure Milling and Removing Longitudinal Joint 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.0090.35	Milling and Removing Longitudinal Joint	LF

Payment is full compensation for milling, removing, sweeping, cleaning, and disposing of materials.

153. Water for Detention Ponds, Item SPV.0120.01.

A Description

This special provision describes furnishing, hauling, and providing water to the normal water level of project detention ponds as directed by the engineer, and as hereinafter provided.

B Materials

When providing water for the detention ponds, use water from adjacent detention ponds and/or clean water that is free of impurities or substances that might injure the seeding.

C Construction

If rainfall is not sufficient to fill the detention ponds, fill detention ponds to the normal water level. Fill ponds at a controlled rate and in a manner to preclude damage to the pond clay liner and as directed by the engineer. Provide the engineer 14 calendar days advance notice of filling the ponds.

If dewatering is necessary to place the pond liner clay, the dewatering shall be maintained until the pond liner clay is completed and the pond is filled with water up to the normal water surface elevation for detention ponds.

D Measurement

The department will measure Water for Detention Ponds by volume by the thousand gallon units (MGAL), acceptably completed.

Provide volume by metering devices or from tanks of known capacity. Report volumes to the engineer daily. Unreported daily volumes may not be considered for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0120.01	Water for Detention Ponds	MGAL

Payment is full compensation for furnishing, hauling, providing and filling the ponds with water.

154. Wall Concrete Panel Mechanically Stabilized Earth R-13-363, Item SPV.0165.01; Wall Concrete Panel Mechanically Stabilized Earth R-13-364, Item SPV.0165.02; Wall Concrete Panel Mechanically Stabilized Earth R-13-365, Item SPV.0165.03; Wall Concrete Panel Mechanically Stabilized Earth R-13-366, Item SPV.0165.04; Wall Concrete Panel Mechanically Stabilized Earth R-13-367, Item SPV.0165.05; Wall Concrete Panel Mechanically Stabilized Earth R-13-368, Item SPV.0165.06; Wall Concrete Panel Mechanically Stabilized Earth R-13-369, Item SPV.0165.07.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

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 according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

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 according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer. 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 according to 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 according to 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. 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 according to 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, unless the plans indicate other.

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 according to 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. Joints between panels shall be no more than 0.75 inch. 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 according to ASTM A884 or galvanized according to 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 concrete Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast-in-place cap and coping concrete as specified in standard spec 716, Class II Concrete. Use coated high-strength bar steel conforming to standard spec 505.

A minimum of two bearing pads shall be used 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 minimum Durometer Hardness of 80, or high- density polyethylene pads with a minimum density of 0.034 lb/in^3 according to 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, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

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 according to AASHTO M 111 or ASTM A641. Aluminized soil reinforcement shall be according to ASTM A463 Aluminized Type 2-100, SS, Grade 50, Class 2. Design of galvanized soil reinforcement shall be according 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 according to 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 ¾-inch joint separation between all adjacent face panels to prevent direct concrete-to-concrete contact. Maintain this gap by the use of bearing pads and/or alignment pins. 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 each 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:

https://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

(1) 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.

(2) 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.

(3) 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 1 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

(1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within 2 business days after the department obtains the sample.

C.4.6.2 Quality Verification (QV) Testing

(1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in 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.

(2) The department will conduct QV tests at the minimum frequency of 30% of the required contractor density, Proctor and gradation tests.

(3) 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.

(4) 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.

(5) 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)

(1) 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.

(2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.4.6.4.

C.4.6.4 Dispute Resolution

(1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

(2) Production test results, and results from other process control testing, may be considered when resolving a dispute.

(3) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product 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.0165.01	Wall Concrete Panel Mechanically Stabilized Earth R-13-363	SF
SPV.0165.02	Wall Concrete Panel Mechanically Stabilized Earth R-13-364	SF
SPV.0165.03	Wall Concrete Panel Mechanically Stabilized Earth R-13-365	SF
SPV.0165.04	Wall Concrete Panel Mechanically Stabilized Earth R-13-366	SF
SPV.0165.05	Wall Concrete Panel Mechanically Stabilized Earth R-13-367	SF
SPV.0165.06	Wall Concrete Panel Mechanically Stabilized Earth R-13-368	SF
SPV.0165.07	Wall Concrete Panel Mechanically Stabilized Earth R-13-369	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.

SPV.0165.01 (20190917)

155. Wall Modular Block Gravity Landscape Station 152+60, Item SPV.0165.08; Wall Modular Block Gravity Landscape Station 172+25, Item SPV.0165.09; Wall Modular Block Gravity Landscape Station 11+40 NS, Item SPV.0165.10; Wall Modular Block Gravity Landscape Station 142+40, Item SPV.0165.12.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Modular Block Gravity Landscape Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. See the approved products list titled "Proprietary Retaining Wall System Vendors." The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The department also maintains a separate list of plants pre-approved by the department to provide wall facing units. See the approved products list titled "Precast Concrete and Block Fabricators." The identity of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid closing date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

To be eligible to provide wall facing units for this project, a block manufacturing plant must be pre-approved by the Bureau of Technical Services and added to that list prior to the bid closing date. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Technical Services at the following email address: DOTProductSubmittal@wisconsin.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design conforms to the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form DT2329 with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11 inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer.

Walls shall be designed for a minimum live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing checks is provided by the department and are provided on the wall plans.

The design of the wall by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. Internal stability shall also be considered at each block level. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The width of the modular block (front face to back face) shall be included in the design computations and shown on the wall shop drawings. Blocks must have a minimum width of 8 inches. Block widths may vary among courses, but shall consist of only a single block. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

Wall facing units shall be designed according to AASHTO LRFD 11.10.2.3.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete or base aggregate leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on a leveling pad.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Wall Facing

Wall facing units shall consist of precast modular concrete blocks. Furnish concrete produced by a dry-cast or wet-cast process. Concrete for all blocks shall not contain less than 565 pounds of cementitious materials per cubic yard. The contractor may use cement conforming to standard spec. 501.2.1 or may substitute for portland cement at the time of batching conforming to standard spec. 501.2.6 for fly, 501.2.7 for slag, or 501.2.8 for other pozzolans. In either case the maximum total supplementary cementitious content is limited to 30% of the total cementitious content by weight.

Dry-cast concrete blocks shall be manufactured according to ASTM C1372 and this specification.

All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are broken, have cracks wider than 0.02” and longer than 25% of the nominal height of the unit, chips larger than 1”, have excessive efflorescence, or are otherwise deemed unacceptable by the engineer, shall not be used within the wall. A single block front face style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan.

The top course of facing units shall be as noted on the plans, either:

- Solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material.
- A formed cast-in-place concrete cap. A cap of this type shall have texture, color, and appearance, as noted on the plans. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap at a maximum spacing of 20 feet unless noted otherwise on the plan. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast in place cap and coping concrete as specified in standard spec 716, Class II Concrete.

Block dimensions may vary no more than ±1/8 inch from the standard values published by the manufacturer. Blocks must have a minimum width (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1¾ inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

All block materials shall be furnished palleted and banded, with every pallet marked for quantity, lot number, lot size, manufacturing plant, and manufacturing date(s). Materials furnished loose or unmarked will be rejected. Rejected materials shall be removed from the project at no cost to the department.

B.3.1.1 Material Testing

Perform or procure quality control testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140 or ASTM C39 [4]	5000 min.	4000 min.
Air Content (%)	AASHTO T152 [4]	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140 [3]	6 max.	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262[1][2][3]	 1.0 max. 1.5 max.	N/A

[1] Test shall be run using a 3% saline solution and blocks greater than 45 days old.

[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

[3] An independent testing laboratory shall control and conduct all sampling and testing under ASTM C140/Water Absorption and ASTM C1262. Prior to sampling, the manufacturer shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory.

[4] The manufacturer may perform their own quality control testing under ASTM C140/Compressive Strength, ASTM C39, and AASHTO T152, if qualified for this work under the requirements for plant certification.

The contractor and fabricator shall coordinate with the independent testing agent (if used) to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot furnished.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast)
- Name and location of testing facility
- Name of sampling technician
- Lot number, lot size, and date(s) of fabrication

Quality control testing of project materials shall be completed not more than 18 months prior to delivery. Lot size shall not exceed the maximum testing frequencies, which shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or 1 day’s production for wet-cast blocks. Test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting reports will be rejected and shall be removed from the project at no expense to the department.

Nonconforming materials will be subject to evaluation according to standard spec 106.5.

B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete or base aggregate leveling pad. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete. Use Base Aggregate Dense 1 1/4-Inch conforming to standard spec 305.

The minimum width of the concrete leveling pad shall be as wide as the proposed blocks plus 6-inches, with 6-inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches.

The minimum width of the base aggregate leveling pad shall be as wide as the proposed blocks plus 12-inches, and the modular blocks centered on the leveling pad. The minimum thickness of the leveling pad shall be 12-inches after compaction.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate Size No. 1 as given in standard spec 501.2.5.4. All backfill placed within a zone from the top of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

A layer of Geotextile Type “DF” (Schedule B) shall be placed vertically between the backfill and the Type A backfill. The geotextile shall extend from the top of the leveling pad to 6 inches below the surface of the retained soil. The geotextile shall then wrap across the top of the Type A backfill to the back of block wall facing.

Backfill placed between retained soil and Type A backfill shall comply with the requirements for Granular Backfill Grade 1 as contained in 209.2.2 of the standard spec. The contractor may substitute Type A Backfill for Granular Backfill Grade 1.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the wall and the leveling pad shall be according to standard spec 206. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction. Backfilling shall closely follow erection of each course of wall facing units.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back face of modular blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

C.2 Compaction

Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the modular blocks.

C.3 Wall Components

C.3.1 General

Erect wall facing units and other associated elements according to the wall manufacturer’s construction guide and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers according to the manufacturer’s directions.

C.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete or base aggregate leveling pad as shown on the plans. Vertical tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. Allow the concrete to set at least 12 hours prior to placing wall facing units.

The bottom row of wall facing units shall be horizontal and 100% of the unit surface shall bear on the leveling pad.

C.4 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan.

D Measurement

The department will measure Wall Modular Block Gravity Landscape (Station) by the square foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.08	Wall Modular Block Gravity Landscape Station 152+60	SF
SPV.0165.09	Wall Modular Block Gravity Landscape Station 172+25	SF
SPV.0165.10	Wall Modular Block Gravity Landscape Station 11+40 NS	SF
SPV.0165.12	Wall Modular Block Gravity Landscape Station 142+40	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pad, and leveling pad steps; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

The department will pay separately for railings, and other items above the wall cap or coping.

SPV.0165.08 (20210121)

156. Wall Modular Block Gravity R-13-362, Item SPV.0165.11.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department’s approved list of Modular Block Gravity Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department’s Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. See the approved products list titled “Proprietary Retaining Wall System Vendors.” The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The department also maintains a separate list of plants pre-approved by the department to provide wall facing units. See the approved products list titled “Precast Concrete and Block Fabricators.” The identity of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid closing date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

To be eligible to provide wall facing units for this project, a block manufacturing plant must be pre-approved by the Bureau of Technical Services and added to that list prior to the bid closing date. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Technical Services at the following email address: DOTProductSubmittal@wisconsin.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design conforms to the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form DT2329 with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8 ½ inch x 11 inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer.

Walls shall be designed for a minimum live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing checks is provided by the department and are provided on the wall plans.

The design of the wall by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. Internal stability shall also be considered at each block level. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. The width of the modular block (front face to back face) shall be included in the design computations and shown on the wall shop drawings. Blocks must have a minimum width of 8 inches. Block widths may vary among courses but shall consist of only a single block. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

Wall facing units shall be designed according to AASHTO LRFD 11.10.2.3.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on a leveling pad.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Wall Facing

Wall facing units shall consist of precast modular concrete blocks. Furnish concrete produced by a dry-cast or wet-cast process. Concrete for all blocks shall not contain less than 565 pounds of cementitious materials per cubic yard. The contractor may use cement conforming to standard spec. 501.2.1 or may substitute for portland cement at the time of batching conforming to standard spec. 501.2.6 for fly, 501.2.7 for slag, or 501.2.8 for other pozzolans. In either case the maximum total supplementary cementitious content is limited to 30% of the total cementitious content by weight.

Dry-cast concrete blocks shall be manufactured according to ASTM C1372 and this specification.

All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are broken, have cracks wider than 0.02” and longer than 25% of the nominal height of the unit, chips larger than 1”, have excessive efflorescence, or are otherwise deemed unacceptable by the engineer, shall not be used within the wall. A single block front face style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan.

The top course of facing units shall be as noted on the plans, either;

- Solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material.
- A formed cast-in-place concrete cap. A cap of this type shall have texture, color, and appearance, as noted on the plans. The vertical dimension of the cap shall not be less than 3 1/2 inches. Expansion joints shall be placed in the cap at a maximum spacing of 20 feet unless noted otherwise on the plan. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast in place cap and coping concrete as specified in standard spec 716, Class II Concrete.

Block dimensions may vary no more than ±1/8 inch from the standard values published by the manufacturer. Blocks must have a minimum width (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1¾ inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the wall in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

All block materials shall be furnished palleted and banded, with every pallet marked for quantity, lot number, lot size, manufacturing plant, and manufacturing date(s). Materials furnished loose or unmarked will be rejected. Rejected materials shall be removed from the project at no cost to the department.

B.3.1.1 Material Testing

Perform or procure quality control testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140 or ASTM C39 [4]	5000 min.	4000 min.
Air Content (%)	AASHTO T152 [4]	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140 [3]	6 max.	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262[1][2][3]	1.0 max. 1.5 max.	N/A

[1] Test shall be run using a 3% saline solution and blocks greater than 45 days old.

[2] Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.

[3] An independent testing laboratory shall control and conduct all sampling and testing under ASTM C140/Water Absorption and ASTM C1262. Prior to sampling, the manufacturer shall identify materials by lot. Five blocks per lot shall be randomly selected for testing. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory.

[4] The manufacturer may perform their own quality control testing under ASTM C140/Compressive Strength, ASTM C39, and AASHTO T152, if qualified for this work under the requirements for plant certification.

The contractor and fabricator shall coordinate with the independent testing agent (if used) to ensure that strength and air content samples can be taken appropriately during manufacturing. At the time of delivery of materials, furnish the engineer a certified report of test from an AASHTO-registered or ASTM-accredited independent testing laboratory for each lot furnished.

The certified test report shall include the following:

- Project ID
- Production process used (dry-cast or wet-cast)
- Name and location of testing facility
- Name of sampling technician
- Lot number, lot size, and date(s) of fabrication

Quality control testing of project materials shall be completed not more than 18 months prior to delivery. Lot size shall not exceed the maximum testing frequencies, which shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or 1 day's production for wet-cast blocks. Test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting reports will be rejected and shall be removed from the project at no expense to the department.

Nonconforming materials will be subject to evaluation according to standard spec 106.5.

B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad. Use Grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

The minimum width of the concrete leveling pad shall be as wide as the proposed blocks plus 6-inches, with 6-inches of the leveling pad extending beyond the front face of the blocks. The minimum thickness of the leveling pad shall be 6-inches.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate Size No. 1 as given in standard spec 501.2.5.4. All backfill placed within a zone from the top of the leveling pad to the top of the final layer of wall facing units and within 1 foot behind the back face of the wall shall be Wall Backfill, Type A. This includes all material used to fill openings in the wall facing units.

A layer of Geotextile Type “DF” (Schedule B) shall be placed vertically between the backfill and the Type A backfill. The geotextile shall extend from the top of the leveling pad to 6 inches below the surface of the retained soil. The geotextile shall then wrap across the top of the Type A backfill to the back of block wall facing.

Backfill placed between retained soil and Type A backfill shall comply with the requirements for Granular Backfill Grade 1 as contained in 209.2.2 of the standard spec. The contractor may substitute Type A Backfill for Granular Backfill Grade 1.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the wall and the leveling pad shall be according to standard spec 206. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth, after compaction. Backfilling shall closely follow erection of each course of wall facing units.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back face of modular blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

C.2 Compaction

Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the modular blocks.

C.3 Wall Components

C.3.1 General

Erect wall facing units and other associated elements according to the wall manufacturer’s construction guide and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers according to the manufacturer’s directions.

C.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad as shown on the plans. Vertical tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. Allow the concrete to set at least 12 hours prior to placing wall facing units.

The bottom row of wall facing units shall be horizontal and 100% of the unit surface shall bear on the leveling pad.

C.4 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Wall Modular Block Gravity 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.0165.11	Wall Modular Block Gravity R-13-362	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pad, and leveling pad steps; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

157. Architectural Surface Treatment Special, Item SPV.0165.13.

A Description

This special provision describes providing a custom concrete masonry architectural surface treatment to produce artwork images on the exposed concrete surfaces of the mechanically stabilized earth retaining wall panels as the plan details show.

B Materials

Construct custom form liners that attach easily to the forming system and do not compress more than ¼ 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.

C Construction

C.1 Form Liner Construction

Custom form liner shall have the custom design, textures and relief as shown on the drawings. The textures, transition details, finishes and techniques shall be consistent across all panels.

A high resolution image file of the artwork graphics is available from the engineer for use in producing the custom form liners. The contractor’s form liner supplier shall trace the image file using CAD or other software as needed to reproduce a copy of the artwork graphics in a format compatible with the form liner fabrication processes.

The exact location of the precast panel joints is not shown on the design drawings and shall be determined by the mechanically stabilized earth retaining wall supplier. The form liner manufacturer shall design the precast panel borders and transitions in a manner to minimize the interruption of the overall artwork at the panel joints. The form liner manufacturer shall make minor adjustments to the artwork graphic as appropriate relative to the final precast panel joint layout with the intent of creating a cohesive image across the joints. Stone joints or boulder lines that fall on a panel joint should be adjusted either way such that the artwork line either remains within a precast panel or spans across the panel joint. Minor adjustments to the “boulder” locations are anticipated to fit the image design with the precast panel joints.

The shapes representing the bedrock strata have been drawn with intentional irregularity with subtle tapers and irregular angles rather than rectangles. The form liner pattern shall match the artwork drawing other than slight adjustment relative to the precast panel joints previously described.

Form liner relief of the various surfaces within the artwork region shall be as shown on the drawings. Form liner manufacturer may propose alternative relief depths as appropriate for form liner and precast panel production. Form liner manufacturer shall be responsible for detailing transitions between the various textures and patterns within the artwork graphic. All details for borders, joints, and transitions shall be clearly shown on the shop drawing submittals.

C.2 Form Liner Submittals

Submit detailed shop drawing showing the final artwork layout, precast panel joints, transition details, surface textures, surface relief depth, and details for all custom form liner panels. Form liner fabrication shall not proceed until shop drawings have been approved by the engineer. Submit photographs clearly demonstrating features of the custom form liner panel molds prior to fabrication of form liner. Submit samples (approximately 2-foot square) showing representative details of the various textures and transitions for approval prior to fabrication of the master molds. Submit photographs clearly demonstrating the features of each custom master mold for review and approval prior to fabrication of form liner.

C.3 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.4 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.5 Form Liner Attachment

Place adjacent liners tight to each other, attach liner securely to forms according to the manufacturer's recommendations.

C.6 Surface Finishing

Ensure that the textured surface is free of laitance. Grind or fill pouring blemishes. Patching of bug holes or blemishes shall match the adjacent finish texture and color. Panels with damaged surface features shall be repaired such that the patch matches the color and texture of the adjacent surface. Damaged panels that cannot be repaired to the satisfaction of the engineer shall be replaced at no additional cost.

D Measurement

The department will measure Architectural Surface Treatment Special by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.13	Architectural Surface Treatment Special	SF

Payment is full compensation for producing the custom architectural surface treatment including preparing shop drawing submittals; fabricating the custom form liners; producing sample panels; producing the architectural surface treatment on the precast panels; finishing and protecting the surface treatment; and for properly disposing of surplus materials.

158. Pavement Cleanup, Item SPV.0170.01.

A Description

This special provision describes cleanup of dust and debris from pavements within and adjacent to the job site.

B Materials

Utilize vacuum equipment with a self-contained particulate collector capable of preventing discharge from the collection bin into the atmosphere.

Use a vacuum-type sweeper as the primary sweeper, except as specified herein or approved by the engineer.

C Construction

Keep all pavements, curb lanes and gutters both closed and open to public traffic within the job-site boundaries free of dust and debris generated from any activity under the contract. Keep all pavements, curb lanes and gutters adjacent to the project free of dust and debris that are affected by land disturbing, dust generating activities, as defined in the contractor's dust control implementation plan.

Conduct sweepings as the engineer directs or approves, to deal with dust problems that might arise during off-work hours or emergencies. Provide the engineer with a contact person available at all times to respond to requests for emergency sweeping. Respond to emergency sweeping requests within 4 hours.

If the vacuum-type sweeper breaks down, a mechanical broom sweeper may be substituted for no more than 24 hours total elapsed time. Repair the vacuum-type sweeper within those 24 hours or substitute a vacuum-type sweeper.

Skid steers with mechanical power brooms may only be utilized on sidewalks and driveways whose pavements will not support the weight of a street sweeper, unless otherwise approved by the engineer.

D Measurement

The department will measure Pavement Cleanup by the full 100-foot station, acceptably completed, measured along the roadway centerline or reference line with each full 100-foot station starting and ending at a +00 station. If two or more roadways occur, the department will measure along the centerline or reference line of each roadway. For divided highways, the department will extend measurement units for each roadway, in width, from 5 feet outside the grading limit of that roadway to a line mid-way between the reference lines or centerlines for each roadway.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0170.01	Pavement Cleanup	STA

Payment is full compensation for surveillance, mobilization, sweeping, and disposing of materials.

159. Concrete Approach Slab, 6-Inch, Item SPV.0180.01.

A Description

This special provision describes furnishing, constructing, and placing Concrete Approach Slab, 6-Inch according to standard spec 415, 501 and 505 as shown in the plans, and as hereinafter provided.

B Materials

Furnish and use materials according to the plans and conforming to the requirements of standard spec 501 and 505.

C Construction

Construct Concrete Approach Slab, 6-Inch according to the plans and standard spec 415.

D Measurement

The department will measure Concrete Approach Slab, 6-Inch by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Concrete Approach Slab, 6-Inch	SY

Payment is full compensation for providing concrete; for reinforcement; for joints, and joint materials; for hauling, mixing, placing, finishing, curing, and protecting the concrete; for hauling and placing reinforcement and joint materials, including fillers and for preparing the foundation.

160. Access Stabilization Geocell, Item SPV.0180.03.

A Description

This work consists of preparing and installing the vegetated access stabilization geocell per manufacturers recommendations.

B Materials

Acceptable products include the following, Presto Geoweb GW30V6 (6-inch) panels, Cell-Tek Geosynthetics LSG-6 (6-inch), Baselok GeoCell GCSP6 (6-inch) or equal.

Detailed design information and recommendations from the chosen manufacturer shall be supplied to the engineer for review. The manufacturer's recommendation for subgrade preparation, base course, geotextile fabric, subgrade geogrid, geocell backfill, anchoring etc. shall be followed.

In areas where the Turf Reinforcement System is required per the restoration plan, the ECRM Class III Type D mat shall be place directly on top of the geocell before placing the wear surface on top of the geocell.

C Construction

The geocell product shall be constructed per the manufacturer's recommendation. The subgrade shall be constructed according to standard spec 205.

D Measurement

The department will measure Access Stabilization Geocell by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.03	Access Stabilization Geocell	SY

Payment is full compensation for providing all materials, including the geocell product, and all other manufacturer recommended products as part of the geocell system; for furnishing all excavating, backfilling, disposing of surplus material.

161. Detention Basin Plug Mix, Item SPV.0180.04.

A Description

This work consists of preparing the plug mix beds, furnishing, and planting wet detention basin plug mix according to applicable provisions of standard spec 630, as shown on the plans, and as hereinafter provided.

B Materials

All plant materials shall conform to American Standard for Nursery Stock (current edition). Plants shall be true to species and variety specified and nursery grown according to good horticultural practices.

Plant Materials: Species and size identifiable in the specification, referenced specifications, or plant schedule, grown in climatic conditions similar to those in locality of the project.

Plugs shall be potted plants and shall be labeled according to species and type, source, date of collection, and/or growth history and nursery grown status. Planting stock shall have a minimum of 3 inches of regenerative mass. Plugs shall be 3-inch by 3-inch potted plant specimens (equivalent to a #SP3 Container Class Specification). They shall be in active growth, healthy, well-watered, with no signs of decay, mold, or other disease. Visible roots shall be pliable and in good condition.

Install plugs on a one square foot spacing within the area depicted on the restoration plan. Provide an equivalent amount of each species. Plant species randomly around the pond per the restoration plan.

Scientific Name	Common Name
Spartina pectinata	Prairie cord grass
Bromus ciliatus	Fringed brome
Scirpus atrovirens	Dark-green bulrush
Glyceria striata	Fowl manna grass
Asclepias incarnata	Swamp milkweed
Lobelia siphilitica	Great blue lobelia
Hypericum pyramidatum	Greater St. John's wort
Caltha palustris	Marsh marigold

Plant material shall be from Illinois, Iowa, or Wisconsin nurseries specializing in growing native species from Wisconsin genotypes within Zones 4b or 5a of the 2012 USDA Plant Hardiness Zone Map. Provide documentation on plant material source.

C Construction

TRANSPORTING AND STORING PLANTS

A. After one-week notice of delivery, engineer will observe the plants and bulbs at the work site at the beginning of each planting day and reject any material that is not properly packaged (including clear labeling by species) or that is not in a firm, moist, or viable condition. Any plants remaining at the end of the day shall be removed from the work site and properly stored.

B. Before planting, sufficient water shall be added to stock and potted plants so that the soil around the roots is not dry and crumbly when the plants are removed from the pots.

LAYOUT OF PLANTING

A. The planting bed shall be approved by the engineer prior to planting.

B. Prepare the planting areas by saturating planting soil with water prior to planting.

C. Space plants on 12-inch centers.

PLANTING TIME

A. Planting times for the various types of perennial plants shall be as follows: Native plugs shall be planted between April 1 and June 1. If approved by engineer, native plugs may be planted between August 15 and September 15.

PLANTING

A. Place plant plugs in prepared holes that are no deeper than the depth of the plant, container, or root system when the plant is at its proper grade. Set plants vertical, firmly pressing surrounding soils with hand or foot to provide full soil-to-root contact.

B. Planting Procedures:

1. The spacing of the plants shall be 12 inches on center. Plants shall be planted by a hand method standard of the restoration industry and approved by engineer.

2. Install plant plugs according to the supplier's instructions, planting details, and Standard Specifications.

3. Native plugs shall be planted such that a minimum of half of the plant is visible above the normal water surface elevation in the detention basin at time of planting.

4. Maintain the water surface elevation of the Swallowtail pond at elevation 1008 during the first month of plug establishment.

D Measurement

The department will measure Detention Basin Plug Mix by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.04	Detention Basin Plug Mix	EACH

Payment is full compensation for providing, handling, and storing all plugs; and for preparing the plug bed and planting the plugs.

ADDITIONAL SPECIAL PROVISION 1 (ASP 1)
FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS)
PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Section 5204(e) – Surface Transportation Workforce Development Training and Education, provides for 100 percent Federal funding if the core program funds are used for training, education, or workforce development purposes, including "pipeline" activities. The core programs includes: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, Highway Bridge Program (HBP), Interstate Maintenance (IM), National Highway System (NHS), and Surface Transportation Program (STP). These workforce development activities cover surface transportation workers, including OJT/SS programs for women and minorities as authorized in 23 U.S.C. §140(b).

TrANS is an employment program originally established in 1995 in Southeastern Wisconsin. Currently TrANS has expanded to include TrANS program locations to serve contractors in Southeast (Milwaukee and surrounding counties), Southcentral (Dane County and surrounding counties including Rock County), and most Northeastern Wisconsin counties from locations in Keshena, Rhinelander and surrounding far Northern areas. TrANS attempts to meet contractor's needs in other geographic locations as possible. It is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities and non-minorities as laborers and apprentices in the highway skilled trades. These candidate preparation and contractor coordination services are provided by community based organizations. For a list of the TrANS Coordinators contact the Disadvantaged Business Enterprise Office at (414) 438-4583 in Milwaukee or (608) 266-6961 in Madison. These services are provided to you at no cost.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or promotions to apprentice of TrANS Program graduates will be made as follows:

1) **On-the-Job Training, Item ASP.1T0G, ASP 1 Graduate.** At the rate of $5.00 per hour on federal aid projects when TrANS graduates are initially hired, or seasonally rehired, as unskilled laborers or the equivalent.

   Eligibility and Duration: To the employing contractor, for up to 2000 hours from the point of initial hire as a TrANS program placement.

   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that __14__ *(number)* TrANS Graduate(s) be utilized on this contract.

2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of $5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).

Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that __9__ *(number)* TrANS Apprentice(s) be utilized on this contract.

3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.

5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

II. RATIONALE AND SPECIAL NOTE

The $5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the $5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

III. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. *TRANS TRAINING*

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. *APPRENTICESHIP TRAINING*

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical under-representation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

(1) To increase the overall effectiveness of the State highway agencies' approved training programs.
(2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b*)* (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a*)* (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM IMPLEMENTATION

Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

(1) The Commitment to Subcontract to DBE (Form DT1506 or digital submittal), Attachments A, and Good Faith Effort Documentation (Form DT1202) will be submitted as described in Section 2.
(2) Any change to DBE Commitments thereafter must follow modification of DBE subcontracting commitment as described in Section 9.
(3) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid shopping is prohibited.
(4) The contractor must utilize the specific DBE firms listed in the approved DBE Commitment to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent in advance from WisDOT. The contractor will not be entitled to payment for any work or materials on the approved DBE Commitment that is not performed or supplied by the listed DBE without WisDOT's written consent.

Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's *Standard Specifications for Highway and Structure Construction* and *Construction and Materials Manual*. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The Department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

(1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

(2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:
- Produce accurate and complete quotes
- Understand highway plans applicable to their work
- Understand specifications and contract requirements applicable to their work
- Understand contracting reporting requirements

(3) The Department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit the Department's Civil Rights and Compliance Section website at: http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx

1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.

b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.

c. **DBE:** Disadvantaged Business Enterprise – A for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.

d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal. The prime contractor will have the option to submit the DT1506 digitally, as an entry with the bid in Bid Express, or as an attachment to the bid.

e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of the DBE Commitment, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved DBE Commitment, and those submitted after approved commitment with Attachment A.

f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.

g. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.

h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.

i. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.

j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote will not be separated.

2. WisDOT DBE Program Compliance

a. Documentation Submittal

- The Commitment to Subcontract to DBE (Form DT1506 or digital submittal) must be submitted at the time of bid (Tuesday) by all prime contractors.
- Attachments A OR quotes from all DBEs included in the Commitment must be submitted at bid (Tuesday) **OR**
- Within one-hour following bid submittal by ALL prime contractors via eSubmit (Tuesday).
- If only DBE quotes were submitted, all remaining signed Attachments A must be submitted within 24-hours of bid closing via eSubmit (Wednesday).
- If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) and supporting documentation must be submitted within 24-hours of bid closing (Wednesday) via eSubmit. Instructions for eSubmit.

**Bidders have the option of submitting the DBE Commitment at the time of bid via direct entry through Bid Express OR with attachment of Form DT1506 (Commitment to Subcontract to DBE). The DBE Commitment entered with bid is the digital form of the DT1506. Separate submission of Form DT1506 is not required if the DBE Commitment is entered in Bid Express. Form DT1202, if applicable, is no longer required to be submitted at time of bid; submit DT1202 within the 24-hour supplemental time frame following bid closing.

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the DBE Commitment (digitally entered into the bid OR Form DT1506 as an attachment), Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

(1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the Department will evaluate the DBE Commitment submitted with bid OR Form DT1506, and Attachments A to verify the actual DBE percentage calculation. If the DBE Commitment is verified, the contract is eligible for award with respect to the DBE Commitment.

(2) DBE Goal Not Met

a) If the bidder indicates a bid percentage on the DBE Commitment that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through

submission of Form DT1202 (Documentation of Good Faith Effort) within 24-hours of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. The Department will review the bidder's DBE Commitment and evaluate the bidder's good faith efforts submission.

b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the Department intends to:
   1. *Approve* the request (adequate documentation of GFE has been submitted)- no conditions placed on the contract with respect to the DBE Commitment;
   2. *Deny* the request (inadequate documentation of GFE has been submitted)- the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.

c) If the Department denies the bidder's request, the contract is ineligible for award. The Department will provide a written explanation for denying the request to the bidder. The bidder may appeal the Department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted through eSubmit (preferred) OR to the DBE Office by email at: DBE_Alert@dot.wi.gov. Email naming convention: "Project #, Proposal #, Let date, Business Name, GFE"

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.

Naming conventions: eSubmit (preferred) follow instructions OR when emailing files, use the following language to identify your submission- “Project #, Proposal #, Let date, Business Name, GFE” Email: DBE_Alert@dot.wi.gov

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).

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) 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.

(2) 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.

(3) 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.

(4) 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.

(5) 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?

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

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.

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

If a DBE performs as a participant in a joint venture, the Department will only count 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, for DBE credit.

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.

c. 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 5 weeks prior to each Let)</u>

- Determine DBE subcontractor's interest in quoting
- 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.
- Assess their interest and experience in the road construction industry by asking questions such as:
  1. Have you competed for other WisDOT contracts? Ratio of competed/to wins
  2. Have you performed on any transportation industry contracts (locally or with other states)?
  3. What the largest contract you've completed?
  4. Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
  5. Does this project fit into your schedule? Are you working on any contracts now?
  6. Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
  7. What region do you work in? Home base?
  8. Which line items are you considering?
  9. Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
  10. 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 requirement

GFESAMPLE MEMORANDUM

TO: DBE FIRMS
FROM: POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR
SUBJECT: **REQUEST FOR DBE QUOTES**
LET DATE & TIME
DATE: MONTH DAY YEAR
CC: DBE OFFICE ENGINEER

Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation Month- date -year Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at http://roadwaystandards.dot.wi.gov/hcci/

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. ***Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.*** We prefer quotes be sent via SBN but prime's alternatives are acceptable. Our office hours are include hours and days.

Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at http://roadwaystandards.dot.wi.gov/hcci/
All questions should be directed to:

Project Manager, John Doe, Phone:
(000) 123-4567
Email: Joe@joetheplumber.com
Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2

This sample is provided as a guide not a requirement

REQUEST FOR QUOTE

Prime's Name: _____

Letting Date: _____

Project ID: _____

Please check all that apply

- ☐ Yes, we will be quoting on the projects and items listed below
- ☐ No, we are not interested in quoting on the letting or its items referenced below
- ☐ Please take our name off your monthly DBE contact list
- ☐ We have questions about quoting this letting. Please have someone contact me at this number

Prime Contractor 's Contact Person:	DBE Contractor Contact Person:
Phone:	Phone:
Fax:	Fax:
Email:	Email:

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clearing and Grubbing	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternatives are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

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 is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs. **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.
    b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-458

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

	Active & Aggressive Category	Quality Category	Quantity Category	Scope & Intensity Category	Timing Category	Business Develop't Efforts	Total=
Solicitation Documentation							
Selected Work Items Documentation							
Documentation of Project Information provided to Interested DBEs							
Documentation of Negotiation with Interested DBEs							
Documentation of Sound Reason for Rejecting DBEs							
Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials							
Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support							
Documentation of other GFE activities							
Overall Total=							

GFE EVALUATION RATING LEGEND – PHASE 1 – Initial Review

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
BUSINESS DEVELOPMENT INITIATIVES: Demonstrated by efforts to support business growth and health of DBEs

Rating Scale

- **Each qualifying activity is worth 5 points per Category**
  - **Pro Forma efforts= 0-50 points**
    Perfunctory effort characterized by routine or superficial activities
  - **Bona Fide= 55+ points**
    Genuine effort characterized by sincere and earnest activities

GFE EVALUATION – PHASE 2 – Team Review

DBE Office completes:

- Review of quote comparisons 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 by apparent low bidder

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 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.

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

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. **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 Representative's Signature & Date
	Participating DBE Firm Representative's Name (Print Name)
	Participating DBE Firm (Print Company Name)
	DBE Firm's Address:

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

Official Form DT1506 can be found here: www.wisconsindot.gov/DBEcontracting

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: www.wisconsindot.gov/DBEcontracting

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.

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 $3.90 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

Make the following revisions to the standard specifications:

415.3.16 Tolerance in Pavement Thickness

Replace the entire text with the following effective with the November 2021 letting:

415.3.16.1 General

(1) Construct the plan thickness or thicker. The department will accept pavement thickness based on the results of department-performed acceptance testing conforming to:

Magnetic Pulse Induction	CMM 870: ASTM E3209 WTM
Probing	CMM 870: WTP C-002
Preplacement Measurement	CMM 870: WTP C-003

415.3.16.2 Pavement Units

415.3.16.2.1 Basic Units

(1) Basic unit is defined as a slip formed, single lane, with a minimum lane width of 10 feet, measured, from the pavement edge to the adjacent longitudinal joint; from one longitudinal joint to the next; or between pavement edges if there is no longitudinal joint.

415.3.16.2.2 Special Units

(2) Establish special units for areas of fillets, intersections, gaps, gores, shoulders, ramps, pavement lanes less than 10 feet wide and other areas not included in basic units.

415.3.16.3 Test Plate Locations

(1) Place department-furnished test plates. Within 5 business days after paving, enter the sequential number and associated position data into MRS available at:

http://www.atwoodsystems.com/

(2) Contractor will maintain plate location markings for 10 business days after paving.

415.3.16.4 Acceptance Testing

415.3.16.4.1 Basic Units

415.3.16.4.1.2 Magnetic Pulse Induction

(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) Department will establish a project reference plate at the start of each paving stage. Project reference plate will be measured before each day of testing. Department will notify the contractor of project reference plate locations before 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 falls 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.
- The contractor shall perform coring according to AASHTO T24. The department will evaluate the results according to AASHTO T148
- The contractor shall fill core holes with concrete or mortar.

415.3.16.4.2 Special Units

415.3.16.4.2.1 Magnetic Pulse Induction

(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) Department will establish a project reference plate at the start of each paving stage. Project reference plate will be measured before each day of testing. Department will notify the contractor of project reference plate locations before 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 falls 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 department will measure the second plate in that unit. If both plates are required to be measured, then all six thickness measurements will be averaged for that unit. If the average of the six measurements is more than 1 inch thinner than contract plan thickness, the pavement is unacceptable.

415.3.16.4.2.2 Probing

(1) The department will measure slip form special units during concrete placement. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.

(2) Department will probe 2 random locations within the special unit. The average of the two readings will be the reported measurement for the special unit.

415.3.16.4.2.3 Preplacement Measurement

(1) The department will measure non-slip form special units before concrete placement.

(2) Thickness corrections will be made to a conforming thickness by reshaping the base aggregate before the pavement is placed.

415.5.2 Adjusting Pay for Thickness

Replace the entire text with the following effective with the November 2021 letting:

(1) The department will adjust pay for pavement thickness under the Nonconforming Thickness Concrete Pavement administrative item as follows:

FOR PAVEMENT THINNER THAN PLAN THICKNESS BY:	PERCENT OF THE CONTRACT UNIT PRICE
> 1/4 inch but <= 1/2 inch	80
> 1/2 inch but <= 3/4 inch	60
> 3/4 inch but <= 1 inch	50

(2) When pavement of unacceptable final thickness is determined, as specified in 415.3.16.4, the department will direct the contractor to either:

1. Remove and replace unacceptable concrete pavement to the nearest joint with new concrete pavement of conforming thickness. The department will pay once for the area at the full contract price.
2. If the unacceptable pavement is less than 100 LF, the department may allow the concrete to remain in place without payment for the unacceptable area.

460.2.6 Recovered Asphaltic Binders

Replace paragraph two with the following effective with the November 2021 letting:

(2) The contractor may replace virgin binder with recovered binder up to the maximum percentage allowed under 460.2.5 without further testing. When the design percent asphalt binder replaced exceeds the allowable limits in 460.2.5, the contractor must:

- Document adjustments made to the mix design in the mix design submittal.
- Submit test results that indicate the mixture's asphaltic binder meets or exceeds the upper and lower temperature grade requirements the bid item designates.
    - If only one recycled asphaltic material source is used, furnish one of the following:
        - Test results from extracted and recovered binder from the resultant mixture.
        - Blending charts that indicate the resultant mixture's high and low temperature PG as an interpolation of the percent binder replaced between the virgin binder's and the recycled asphaltic material source binder's high and low temperature PG.
    - If two or more recycled asphaltic material sources are used, furnish test results from extracted and

recovered binder from the resultant mixture.

501.2.6 Water

Retitle with the following effective with the November 2021 letting:

501.2.6 Mixing Water

501.2.6.2 Requirements

Replace paragraph two with the following effective with the November 2021 letting:

(2) Water from other sources must comply with the following:

Acidity, maximum of 0.1N NaOH to neutralize 200 mL of water; CMM 870: WTP C-001	2 mL
Alkalinity, maximum of 0.1N HCL to neutralize 200 mL of water; CMM 870: WTP C-001	15 mL
Maximum sulphate ($S0_4$); CMM 870: WTP C-001	0.05 percent
Maximum chloride; CMM 870: WTP C-001	0.10 percent
Maximum total solids; CMM 870: WTP C-001	
Organic	0.04 percent
Inorganic	0.15 percent

501.3.2.2.2 Supplementary Cementitious Material

Replace the entire text with the following effective with the May 2022 letting:

(1) Replace 15 to 30 percent by weight of the total cementitious material content with approved SCMs for class I concrete as specified in 715.

(2) Replace a maximum of 30 percent by weight of the total cementitious material content with approved SCMs for class II and class III concrete as specified in 716.

(3) Limit Class F fly ash sources not on the APL to maximum 15 percent.

(4) Minimum SCM content may be waived by the engineer.

501.3.2.4.2 Air Entrainment

Replace paragraph two with the following effective with the November 2021 letting:

(2) Test fresh concrete air content according to AASHTO T152 or AASHTO TP118 at the contract-required frequency and as the engineer directs. Test concrete placed by pumping or belting at the point of discharge from the pump line or belt.

501.3.7.1 Slump

Replace paragraph one with the following effective with the November 2021 letting:

(1) Use a 1-inch to 4-inch slump for concrete used in structures or placed in forms, except as follows:

- Do not exceed a slump of 2 inches for grade E concrete.
- Increase slump as specified in 502.3.5.3 for concrete placed underwater.
- If BTS approves a concrete mixture using a superplasticizer, the contractor may increase slump for that mixture to a maximum of 9 inches without exceeding the maximum mix water allowed for that grade.

531.5 Payment

Replace paragraph two with the following effective with the November 2021 letting:

(2) Payment for Concrete Masonry Ancillary Structures Type NS is full compensation for providing concrete for non-standard sign structure foundations; and for anchor rod assemblies. The department will pay separately for excavating and backfilling drilled shafts under the Drilling Shafts bid items.

Replace paragraph five with the following effective with the November 2021 letting:

(5) Payment for the Foundation bid items is full compensation for providing concrete foundations; for anchor rod assemblies; for reinforcing steel; and for embedded conduit and electrical components. The department will pay separately for excavating and backfilling drilled shafts under the Drilling Shafts bid items.

642.2.2.1 General

Replace paragraph one with the following effective with the November 2021 letting:

(1) Provide each field office with two rooms, separated by an interior door with a padlock. Ensure that each room has a separate exterior door and its own air conditioner. Locate the office where a quality internet connection can be achieved. Ensure quality cell phone reception is achievable inside the field office.

701.3.1 General

Replace table 701-1 with the following effective with the November 2021 letting:

TABLE 701-1 TESTING AND CERTIFICATION STANDARDS

TEST	TEST STANDARD	MINIMUM REQUIRED CERTIFICATION (any one of the certifications listed for each test)
Random Sampling	CMM 830.9.2	Transportation Materials Sampling Technician (TMS) TMS Assistant Certified Technician (ACT-TMS) Aggregate Technician I (AGGTEC-I) AGGTEC-I Assistant Certified Technician (ACT-AGG) PCC Technician I (PCCTEC-I) PCCTEC-I Assistant Certified Technician (ACT-PCC) Grading Technician I (GRADINGTEC-I) Grading Assistant Certified Technician (ACT-GRADING)
Sampling Aggregates	AASHTO T2[1] [4]	TMS, ACT-TMS, AGGTECT-1, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11[1]	AGGTEC-I, ACT-AGG
Fine & coarse aggregate gradation	AASHTO T27[1]	
Aggregate moisture content	AASHTO T255[1]	
Fractured faces	ASTM D5821[1]	
Liquid limit	AASHTO T89	Aggregate Testing for Transportation Systems (ATTS) GRADINGTEC-I, or ACT-GRADING
Plasticity index	AASHTO T90[3]	
Sampling freshly mixed concrete	AASHTO R60	PCCTEC-1 ACT-PCC
Air content of fresh concrete	AASHTO T152[2] AASHTO TP118[5]	
Air void system of fresh concrete	AASHTO TP118[5]	
Concrete slump	AASHTO T119[2]	
Concrete temperature	ASTM C1064	
Making and curing concrete specimens	AASHTO T23	
Moist curing for concrete specimens	AASHTO M201	
Concrete compressive strength	AASHTO T22	Concrete Strength Tester (CST) CST Assistant Certified Technician (ACT-CST)
Concrete flexural strength	AASHTO T97	
Concrete surface resistivity[2]	AASHTO T358	
Voids in aggregate	AASHTO T19	PCCTEC-II
Profiling	__	PROFILER

[1] As modified in CMM 860.

[2] As modified in CMM 870.

[3] A plasticity check, if required under individual QMP specifications, may be performed by an AGGTEC-I in addition to the certifications listed for liquid limit and plasticity index tests.

[4] Plant personnel may operate equipment to obtain samples under the direct observation of a TMS or higher.

[5] Consolidate by rodding.

710.2 Small Quantities

Replace the entire text with the following effective with the November 2021 letting:

(1) The department defines small quantities as follows:

- As specified in 715.1.1.2 for class I concrete.
- Less than 50 cubic yards of class II ancillary concrete placed under a single bid item.

(2) For contracts with only small quantities of material subject to testing, modify the requirements of 710 as follows:

1. The contractor may submit an abbreviated quality control plan as allowed in 701.1.2.3.
2. Provide one of the following for aggregate process control:
    - Documented previous testing dated within 120 calendar days. Provide gradation test results to the engineer before placing material.
    - Non-random start-up gradation testing.

710.4 Concrete Mixes

Replace paragraph two with the following effective with the November 2021 letting:

(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, SSD bulk specific gravity, wear, soundness, freeze thaw test results if required, and air correction factor. Also include aggregate production records dated within 2 years if using those results in the design. 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 according to AASHTO TP137 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.

Replace paragraph four with the following effective with the November 2021 letting:

(4) Prepare and submit modifications to a concrete mix to the engineer for approval 3 business days before using that modified mix. Modifications requiring the engineer's approval include changes in:

1. Source of any material. For paving and barrier mixes, a source change for fly ash of the same class does not constitute a mix design change.
2. Quantities of cementitious materials.
3. Addition or deletion of admixtures. Minor admixture dosage adjustments required to maintain air content or slump do not require engineer review or approval.

710.5.5 Strength

Replace paragraph one with the following effective with the November 2021 letting:

(1) Cast all 6" x 12" cylinders or all 6" x 6" x 21" beams in a set from the same sample. Do not cast more than one set of specimens from a single truckload of concrete. Mark each specimen to identify the lot and sublot or location on the project it represents.

710.5.6 Aggregate Testing

Retitle and replace the entire text with the following effective with the November 2021 letting:

710.5.6 Aggregate Testing During Concrete Production

710.5.6.1 General

(1) The department will accept gradation based on the results of department-performed acceptance testing.

(2) The department and contractor will obtain samples using the same method. When belt sampling, contractor personnel shall obtain samples for the department under the direct observation of the department personnel. Contractor will define sampling method in the QMP or abbreviated QMP.

710.5.6.2 Contractor Control Charts

710.5.6.2.1 General

(1) Test aggregate gradations during concrete production except as allowed for small quantities under 710.2. Required contractor testing will be performed using non-random samples.

(2) Sample aggregates from either the conveyor belt or from the working face of the stockpiles.

(3) Sample aggregates within 2 business days before placement for each mix design. 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 shown based on the anticipated daily cumulative plant production for each mix design. The contractor's concrete production tests can be used for the same mix design on multiple contracts.

TABLE 710-1 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS I

DAILY PLANT PRODUCTION RATE FOR WisDOT WORK	MINIMUM FREQUENCY
Gradation Report Before Placement	
1000 cubic yards or less	one test per day
more than 1000 cubic yards	two tests per day

TABLE 710-2 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS II

MINIMUM FREQUENCY
Gradation Report Before Placement
One test per calendar week of production

710.5.6.2.2 Optimized Aggregate Gradation Control Charts

(1) Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the following:

- 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.
- Sum of volumetric percentages retained on No. 8, No. 16, and No. 30 sieves.
- Sum of volumetric percentages retained on No. 30, No. 50, No. 100, and No. 200 sieves.

(2) Calculate blended aggregate gradations using the mix design batch percentages for the component aggregates. Ensure the blended aggregate gradation conforms to the volumetric percent retained of the optimized aggregate gradation limits specified in table 501-4.

(3) Throughout the contract, construct a 4-point running average of the volumetric percent retained for each sieve to determine if the blended aggregate gradation is within the tarantula curve limits specified in table 501-4.

710.5.6.2.3 Combined Aggregate Gradation Control Charts

(1) Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.

(2) Calculate blended aggregate gradations using the mix design batch percentages for the component aggregates. Ensure the blended aggregate gradation conforms to the percent passing by weight requirements of the combined aggregate gradation limits specified in table 501-4.

(3) Throughout the contract, construct a 4-point running average of the percent passing by weight for each sieve to determine if the blended aggregate gradation is within the combined aggregate gradation limits specified in table 501-4.

710.5.6.3 Department Acceptance Testing

(1) Department testing frequency is based on the quantity of each mix design placed under each individual WisDOT contract.

(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 regional testing lab in the same day. Department will report gradation test results to the contractor within 1 business day of being delivered to the lab. Department and contractor can agree to an alternative test result reporting timeframe; alternative timeframe is required to be documented in the QMP.

(4) Additional samples may be taken at the engineer's discretion due to change in condition.

TABLE 710-3 DEPARTMENT GRADATION TESTING FREQUENCY

CONCRETE CLASSIFICATION	MINIMUM DEPARTMENT FREQUENCY
Class I: Pavement	1 test per placement day for first 5 days of placement. If all samples are passing, reduced frequency is applied.
	Reduced frequency: 1 test per calendar week of placement
Class I: Structures	1 test per 250 CY placed - Minimum of 1 test per substructure - Minimum of 1 test per superstructure
Class I: Cast-in-Place Barrier	1 test per 500 CY placed
Class II	No minimum testing

710.5.7 Corrective Action

Replace the entire text with the following effective with the November 2021 letting:

710.5.7.1 Optimized Aggregate Gradations

(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, 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. Department will conduct two tests within the next business day after corrective action is complete.
5. If blended aggregate gradations are within the tarantula curve limits by the second department test:
   - Continue with concrete production.
   - Contractor will include a break in the 4-point running average.
   - For Class I: Pavements, 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 tarantula curve limits by the second department test:
   - Provide a new mix design with an increased cementitious content.
   - If the mix design already has a cementitious content of 565 or more pounds per cubic yard, provide a new mix design.
   - If the contract requires optimized aggregate gradations under 501.2.7.4.2.1(2), stop concrete production and submit a 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 new mix design.

(3) Department and contractor will sample and test aggregate of the new mix design at the frequency defined in 710.5.6.1.

710.5.7.2 Combined Aggregate Gradations

(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. 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.
   - Contractor will include a break in the 4-point running average.

- For Class I: Pavements, 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 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 new mix design.

(3) Department and contractor will sample and test aggregate of the new mix design at the frequency defined in 710.5.6.1.

715.3.1.1 General

Replace paragraphs three and four with the following effective with the November 2021 letting:

(3) Cast a set of 3 additional 6"x12" cylinders and test the concrete surface resistivity according to AASHTO T358. Perform this testing at least once per lot if total contract quantities are greater than or equal to the following:

- 20,000 square yards for pavements.
- 5,000 linear feet for barriers.
- 500 cubic yards for structure concrete.

Submit the resistivity to the nearest tenth into MRS for information only. Resistivity testing is not required for the following:

- Lot with less than 3 sublots.
- Concrete items classified as ancillary.
- Concrete placed under the following bid items:
  - Concrete Pavement Approach Slab
  - Concrete Masonry Culverts
  - Concrete Masonry Retaining Walls

(4) Test the air void system at least once per lot and enter the SAM number in MRS for information only. SAM testing is not required for the following:

- For lots with less than 3 sublots.
- High early strength (HES) concrete.
- Special high early strength (SHES) concrete.
- Concrete placed under the following bid items:
  - Concrete Pavement Approach Slab
  - Concrete Masonry Culverts
  - Concrete Masonry Retaining Walls
  - Steel Grid Floor Concrete Filled
  - Crash Cushions Permanent
  - Crash Cushions Permanent Low Maintenance
  - Crash Cushions Temporary

715.3.1.2.3 Lots by Cubic Yard

Replace the entire text with the following effective with the November 2021 letting:

(1) Define standard lots and sublots conforming to the following:

TABLE 715-1 CLASS I - LOT AND SUBLOT SIZES

CONCRETE CLASSIFICATION	LOT SIZE	SUBLOT SIZE	NUMBER OF SUBLOTS PER LOT
Class I: Pavement	1250 cubic yards	250 cubic yards	5
Class I: Structures	250 cubic yards	50 cubic yards	5
Class I: Cast-in-Place Barrier	500 cubic yards	100 cubic yards	5

(2) The contractor may include sublots less than or equal to 25 percent of the standard volume in the previous sublot. For partial sublots exceeding 25 percent of the standard volume, notify the engineer who will direct additional testing to represent that partial sublot.

(3) An undersized lot is eligible for incentive payment under 715.5 if the lot has 3 or more sublots for that lot.

715.3.2 Strength Evaluation

Replace the entire text with the following effective with the November 2021 letting:

715.3.2.1 General

(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) Randomly select 2 QC specimens to test at 28 days for percent within limits (PWL). Compare the strengths of the 2 randomly selected QC specimens and determine the 28-day sublot average strength as follows:

- If the lower strength divided by the higher strength is 0.9 or more, average the 2 QC specimens.
- If the lower strength divided by the higher strength is less than 0.9, break one additional specimen and average the 2 higher strength specimens.

715.3.2.2 Removal and Replacement

715.3.2.2.1 Pavement

(1) If a sublot strength is less than 2500 psi in compressive strength or 500 psi in flexural strength, the department may direct the contractor to core that sublot to determine its structural adequacy and whether to direct removal.

(2) If the engineer directs coring, obtain three cores from the sublot in question. Have an HTCP-certified PCC technician I perform or observe core sampling according to AASHTO T24.

(3) Have an independent consultant test cores according to AASHTO T24.

(4) The department will assess concrete for removal and replacement based on a sublot-by-sublot analysis of core strength. Perform coring and testing, fill core holes with an engineer-approved non-shrink grout or concrete, and provide traffic control during coring.

(5) The sublot pavement is conforming if the compressive strengths of all cores from the sublot are 2500 psi or greater.

(6) The sublot pavement is nonconforming if the compressive strengths of any core from the sublot is less than 2500 psi. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

715.3.2.2.2 Structures and Cast-in-Place Barrier

(1) The department will evaluate the sublot for possible removal and replacement if the 28-day sublot average compressive strength is lower than f'c minus 500 psi. The value of f'c is the design stress the plans show. The department may assess further strength price reductions or require removal and replacement only after coring the sublot.

(2) The engineer may initially evaluate the sublot strength using a non-destructive method. Based on the results of non-destructive testing, the department may accept the sublot at the previously determined pay for the lot, or direct the contractor to core the sublot.

(3) If the engineer directs coring, obtain three cores from the sublot in question. Have an HTCP-certified PCC technician I perform or observe core sampling according to AASHTO T24. Determine core locations, subject to the engineer's approval, that do not interfere with structural steel.

(4) Have an independent consultant test cores according to AASHTO T24.

(5) The department will assess concrete for removal and replacement based on a sublot-by-sublot analysis of core strength. Perform coring and testing, fill core holes with an engineer-approved non-shrink grout or concrete, and provide traffic control during coring.

(6) If the 3-core average is greater than or equal to 85 percent of f'c, and no individual core is less than 75 percent of f'c, the engineer will accept the sublot at the previously determined pay for the lot. If the 3-core average is less than 85 percent of f'c, or an individual core is less than 75 percent of f'c, the engineer may require the contractor to remove and replace the sublot. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

715.3.3 Aggregate

Replace the entire text with the following effective with the November 2021 letting:

715.3.3.1 General

(1) Except as allowed for small quantities in 710.2, test aggregate conforming to 710.5.6.

715.3.3.2 Structures

(1) In addition to the aggregate testing required under 710.5.6, determine the fine and coarse aggregate moisture content for each sample.

(2) Calculate target batch weights for each mix when production of that mix begins. 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.

716.2.1 Class II Concrete

Replace paragraph two with the following effective with the May 2022 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 2 cylinders per 200 cubic yards for each mix design and placement method. Cast a minimum of one set of 2 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 quantities under 50 cubic yards. Cast one set of 2 cylinders if using startup testing for acceptance.

ERRATA

460.2.2.3 Aggregate Gradation Master Range

Correct errata by adding US Standard equivalent sieve sizes.

(1) Ensure that the aggregate blend, including recycled material and mineral filler, conforms to the gradation requirements in table 460-1. The values listed are design limits; production values may exceed those limits.

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
	No. 1 (37.5 mm) (1 1/2 inch)	No. 2 (25.0 mm) (1 inch)	No.3 (19.0 mm) (3/4 inch)	No. 4 (12.5 mm) (1/2 inch)	No. 5 (9.5 mm) (3/8 inch)	No. 6 (4.75 mm) (3/16 inch)	SMA No. 4 (12.5 mm) (1/2 inch)	SMA No. 5 (9.5 mm) (3/8 inch)
50.0-mm (2-inch)	100							
37.5-mm (1 1/2-inch)	90 - 100	100						
25.0-mm (1-inch)	90 max	90 - 100	100					
19.0-mm (3/4-inch)	___	90 max	90 - 100	100			100	
12.5-mm (1/2-inch)	___	___	90 max	90 - 100	100		90 - 97	100
9.5-mm (3/8-inch)	___	___	___	90 max	90 - 100	100	58 - 80	90 - 100
4.75-mm (No. 4)	___	___	___	___	90 max	90 - 100	25 - 35	35 - 45
2.36-mm (No. 8)	15 - 41	19 - 45	23 - 49	28 - 58	32 - 67	90 max	15 - 25	18 - 28
1.18-mm (No. 16)	___	___	___	___	___	30 - 55	___	___
0.60-mm (No. 30)	___	___	___	___	___	___	18 max	18 max
0.075-mm (No. 200)	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	6.0 - 13.0	8.0 - 11.0	8.0 - 12.0
% VMA	11.0 min	12.0 min	13.0 min	14.0 min[1]	15.0 min[2]	16.0 - 17.5	16.0 min	17.0 min

[1] 14.5 for LT and MT mixes.

[2] 15.5 for LT and MT mixes.

715.5.1 General

Correct the bid item number for Incentive Compressive Strength Concrete Pavement.

(1) The department will pay incentive for compressive strength under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
715.0502	Incentive Strength Concrete Structures	DOL
715.0603	Incentive Strength Concrete Barrier	DOL
715.0715	Incentive Flexural Strength Concrete Pavement	DOL
715.0720	Incentive Compressive Strength Concrete Pavement	DOL

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

Effective January 2019 Letting ASP 9

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to electronically submit certified payroll reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx

(2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

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

(4) The department will reject all paper submittals for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at paul.ndon@dot.wi.gov. Not every contractor's payroll system is capable of producing export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at:

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

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Non-segregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
XI. Certification Regarding Use of Contract Funds for Lobbying
XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work 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. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding (29 CFR 5.5)

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records (29 CFR 5.5)

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.

(2) Each payroll submitted shall be accompanied by a “Statement of Compliance,” signed by the contractor or

subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees (29 CFR 5.5)

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the

corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility (29 CFR 5.5)

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1 of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 1 of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1 of this section. 29 CFR 5.5.

* $27 as of January 23, 2019 (See 84 FR 213-01, 218) as may be adjusted annually by the Department of Labor; pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990).

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this section. 29 CFR 5.5.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 1 through 4 of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1 through 4 of this section. 29 CFR 5.5.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on 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 200.326.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.326.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant

who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/). 2 CFR 180.300, 180.320, and 180.325.

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

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

3. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is

submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general 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.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(b) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(c) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

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).

SEPTEMBER 2002

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.

2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

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.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

Effective November 2020 letting

BUY AMERICA PROVISION

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

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 steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form DT4567 is available at:

https://wisconsindot.gov/Documents/formdocs/dt4567.docx

Effective February 2016 letting

Cargo Preference Act Requirement

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) *Agreement Clauses.* "Use of United States-flag vessels:"

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) *Contractor and Subcontractor Clauses.* "Use of United States-flag vessels: The contractor agrees—"

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

Effective with December 2017 Letting

WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS FOR PROJECTS WITH FEDERAL AID

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis. https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- 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: WI20220010 07/29/2022

Superseded General Decision Number: WI20210010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

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

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022

1	01/21/2022
2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	05/13/2022
8	06/17/2022
9	07/08/2022
10	07/22/2022
11	07/29/2022

BRWI0001-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.78	24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0019-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON,

JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

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

CARP0264-003 06/01/2016

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

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

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

ELEC0014-002 12/26/2021

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:	$ 37.83	21.89

ELEC0014-007 05/30/2021

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 28.50	15.92

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

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

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	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

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

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

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

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 41.37	69.25%

ELEC0388-002 05/30/2021

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

	Rates	Fringes
Electricians:	$ 36.22	26%+11.24

ELEC0430-002 06/01/2022

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 45.02	24.35

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 44.39	25.67

ELEC0494-006 06/01/2021

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

	Rates	Fringes
Electricians:	$ 37.91	22.74

ELEC0494-013 06/01/2021

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

	Rates	Fringes
Sound & Communications		
Installer	$ 22.39	18.80
Technician	$ 32.49	20.26

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic 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 06/01/2021

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

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

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

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

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 06/01/2022

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 43.27	25.95
Group 2	$ 42.77	25.95
Group 3	$ 42.27	25.95
Group 4	$ 42.01	25.95
Group 5	$ 41.72	25.95
Group 6	$ 35.82	25.95

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - $3.00 per hour
EPA Level ""B"" protection - $2.00 per hour
EPA Level ""C"" protection - $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

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

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; 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 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 38.77	28.15

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

IRON0008-003 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

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

IRON0383-001 06/05/2022

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

	Rates	Fringes
IRONWORKER	$ 39.00	28.58

IRON0498-005 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

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* IRON0512-008 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 41.00	33.11

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* IRON0512-021 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 36.94	33.11

LABO0113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 32.65	23.09
Group 2	$ 32.80	23.09
Group 3	$ 33.00	23.09
Group 4	$ 33.15	23.09
Group 5	$ 33.30	23.09
Group 6	$ 29.14	23.09

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		

Group 1	$ 31.90	23.09
Group 2	$ 32.00	23.09
Group 3	$ 32.05	23.09
Group 4	$ 32.25	23.09
Group 5	$ 32.10	23.09
Group 6	$ 28.99	23.09

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.71	23.09
Group 2	$ 31.86	23.09
Group 3	$ 32.06	23.09
Group 4	$ 32.03	23.09
Group 5	$ 32.36	23.09
Group 6	$ 28.85	23.09

LABORERS CLASSIFICATIONS:

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

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

	Rates	Fringes
LABORER		
Group 1	$ 36.42	18.68
Group 2	$ 36.52	18.68
Group 3	$ 36.57	18.68
Group 4	$ 36.77	18.68
Group 5	$ 36.62	18.68
Group 6	$ 33.05	18.68

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; 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 06/01/2022

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 36.70	18.68
Group 2	$ 36.80	18.68
Group 3	$ 36.85	18.68
Group 4	$ 37.05	18.68

Group 5	$ 36.90	18.68
Group 6	$ 33.05	18.68

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; 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 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 33.99	22.70
Spray, Sandblast, Steel	$ 34.59	22.70
Repaint:		
Brush, Roller	$ 33.09	22.70
Spray, Sandblast, Steel	$ 32.49	22.70

PAIN0108-002 06/01/2021

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 36.08	20.36
Spray & Sandblast	$ 37.52	23.27

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 06/01/2021

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 36.70	24.50
Brush	$ 35.95	24.50
Spray & Sandblast	$ 36.70	24.50

PAIN0802-002 06/01/2021

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

	Rates	Fringes
PAINTER		
Brush	$ 29.98	18.78

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2021

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

	Rates	Fringes
PAINTER	$ 29.98	18.78

PAIN0934-001 06/01/2021

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 36.52	23.27
Spray	$ 37.52	23.27
Structural Steel	$ 36.67	23.27

PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 26.71	14.38

PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

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

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

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 32.72	23.81
WELL DRILLER	$ 16.52	3.70

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

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year.

Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

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

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

Survey Rate Identifiers

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

date for the classifications and rates under that identifier.

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

Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

The request should be accompanied by a full statement of the

interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

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

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

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

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END OF GENERAL DECISIO"

"General Decision Number: WI20220008 08/05/2022

Superseded General Decision Number: WI20210008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	06/17/2022
8	07/08/2022
9	07/15/2022
10	07/29/2022
11	08/05/2022

BRWI0001-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.78	24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0009-001 06/01/2021

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0013-002 06/01/2021

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

BRWI0019-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0021-002 06/01/2021

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.75	25.92

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

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

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

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

CARP0264-003 06/01/2016

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

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

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

CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A	$ 33.58	21.53
Zone B	$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 12/26/2021

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:	$ 37.83	21.89

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

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	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

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

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

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

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 41.37	69.25%

ELEC0388-002 05/30/2021

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

	Rates	Fringes
Electricians:	$ 36.22	26%+11.24

ELEC0430-002 06/01/2022

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 45.02	24.35

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 44.39	25.67

ELEC0494-006 06/01/2021

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

	Rates	Fringes
Electricians:	$ 37.91	22.74

ELEC0577-003 06/01/2021

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

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

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

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

ENGI0139-003 06/06/2022

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 45.22	24.85
Group 2	$ 43.97	24.85
Group 3	$ 41.57	24.85
Group 4	$ 41.04	24.85
Group 5	$ 38.97	24.85
Group 6	$ 37.44	24.85

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and 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 06/05/2022

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

Power Equipment Operator

Group 1	$ 43.54	24.85
Group 2	$ 42.76	24.85
Group 3	$ 41.81	24.85
Group 4	$ 40.76	24.85
Group 5	$ 39.36	24.85

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and\or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (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 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 38.77	28.15

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

IRON0008-003 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

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

IRON0383-001 06/05/2022

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

	Rates	Fringes
IRONWORKER	$ 39.00	28.58

IRON0498-005 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

IRON0512-008 05/01/2022

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

COUNTIES

	Rates	Fringes
IRONWORKER	$ 41.00	33.11

IRON0512-021 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 36.94	33.11

LABO0113-004 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1	$ 17.62	21.98
Group 2	$ 19.89	21.98
Group 3	$ 23.43	21.98
Group 4	$ 32.80	21.98
Group 5	$ 32.94	21.98
Group 6	$ 33.00	21.98
Group 7	$ 36.85	21.98
Group 8	$ 39.67	21.98
Group 9	$ 40.31	21.98

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc; Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner; Pipe Layer; Rock Driller and Joint Man; Timber Man and Concrete Brusher; Bracer in Trench Behind Machine & Tight Sheeting; Concrete Formsetter and Shoveler; Jackhammer Operator

GROUP 9: Blaster

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* LABO0113-005 06/06/2022

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1	$ 24.29	21.98
Group 2	$ 30.22	21.98
Group 3	$ 34.42	21.98
Group 4	$ 36.19	21.98

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint 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 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1	$ 23.43	21.98
Group 2	$ 32.94	21.98
Group 3	$ 33.00	21.98
Group 4	$ 36.98	21.98
Group 5	$ 36.99	21.98
Group 6	$ 39.67	21.98
Group 7	$ 40.31	21.98

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

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* LABO0113-009 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1	$ 23.43	21.98
Group 2	$ 32.94	21.98
Group 3	$ 37.39	21.98
Group 4	$ 38.19	21.98
Group 5	$ 38.31	21.98
Group 6	$ 41.01	21.98
Group 7	$ 41.63	21.98

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add $2.00 to all classifications
*Compressed Air over 30 lbs add $3.00 to all 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 06/06/2022

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

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1	$ 31.48	18.68
Group 2	$ 33.33	18.68

Group 3.....$ 33.53 18.68
Group 4.....$ 34.28 18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint 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 06/06/2022

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.38	18.68
Group 2	$ 33.58	18.68
Group 3	$ 33.78	18.68
Group 4	$ 34.53	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add $1.00, 15- 30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint 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 06/06/2022

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		

Group 1	$ 31.17	18.68
Group 2	$ 33.23	18.68
Group 3	$ 33.43	18.68
Group 4	$ 34.18	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint 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

PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

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

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

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 32.72	23.81
WELL DRILLER	$ 16.52	3.70

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

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

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this

classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

On survey related matters, initial contact, including requests

for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

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

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

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

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

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

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

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

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

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END OF GENERAL DECISIO"

August 2018

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: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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	108.4300 RBC Progress Schedule	1.000 EACH	_____.____	_____.____
0004	201.0105 Clearing	57.000 STA	_____.____	_____.____
0006	201.0120 Clearing	1,970.000 ID	_____.____	_____.____
0008	201.0205 Grubbing	57.000 STA	_____.____	_____.____
0010	201.0220 Grubbing	1,970.000 ID	_____.____	_____.____
0012	203.0100 Removing Small Pipe Culverts	20.000 EACH	_____.____	_____.____
0014	204.0100 Removing Concrete Pavement	1,075.000 SY	_____.____	_____.____
0016	204.0150 Removing Curb & Gutter	4,915.000 LF	_____.____	_____.____
0018	204.0155 Removing Concrete Sidewalk	1,742.000 SY	_____.____	_____.____
0020	204.0170 Removing Fence	2,245.000 LF	_____.____	_____.____
0022	204.0185 Removing Masonry	12.000 CY	_____.____	_____.____
0024	204.0195 Removing Concrete Bases	89.000 EACH	_____.____	_____.____
0026	204.0205 Removing Utility Poles	1.000 EACH	_____.____	_____.____
0028	204.0210 Removing Manholes	5.000 EACH	_____.____	_____.____
0030	204.0220 Removing Inlets	9.000 EACH	_____.____	_____.____
0032	204.0230 Removing Building (station) 01. Station 175+90	LS	LUMP SUM	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0034	204.0230 Removing Building (station) 03. Station 179+60 LT	LS	LUMP SUM	_____._____
0036	204.0245 Removing Storm Sewer (size) 01. 12-Inch or Less	361.000 LF	_____._____	_____._____
0038	204.0245 Removing Storm Sewer (size) 02. 15-Inch	31.000 LF	_____._____	_____._____
0040	204.0245 Removing Storm Sewer (size) 03. 18-Inch	102.000 LF	_____._____	_____._____
0042	204.0245 Removing Storm Sewer (size) 04. 24-Inch	535.000 LF	_____._____	_____._____
0044	204.0245 Removing Storm Sewer (size) 05. 30-Inch	100.000 LF	_____._____	_____._____
0046	204.0245 Removing Storm Sewer (size) 06. 36-Inch	26.000 LF	_____._____	_____._____
0048	204.0245 Removing Storm Sewer (size) 07. 24X38-Inch	48.000 LF	_____._____	_____._____
0050	204.0280 Sealing Pipes	1.000 EACH	_____._____	_____._____
0052	204.9060.S Removing (item description) 01. Apron Endwalls	19.000 EACH	_____._____	_____._____
0054	204.9060.S Removing (item description) 02. Storm Sewer Outlet Control Structure	1.000 EACH	_____._____	_____._____
0056	204.9060.S Removing (item description) 03. Commercial Sign	3.000 EACH	_____._____	_____._____
0058	204.9060.S Removing (item description) 04. RRFB	2.000 EACH	_____._____	_____._____
0060	204.9060.S Removing (item description) 05. Pillars	2.000 EACH	_____._____	_____._____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0062	204.9060.S Removing (item description) 06. Removing Traffic Signals Pleasant View Road & USH 14	11.000 EACH	_____._____	_____._____
0064	205.0100 Excavation Common	188,192.000 CY	_____._____	_____._____
0066	205.0200 Excavation Rock	38,872.000 CY	_____._____	_____._____
0068	209.2100 Backfill Granular Grade 2	120.000 CY	_____._____	_____._____
0070	213.0100 Finishing Roadway (project) 01. 5992-11-01	1.000 EACH	_____._____	_____._____
0072	213.0100 Finishing Roadway (project) 02. 5310-02-75	1.000 EACH	_____._____	_____._____
0074	305.0110 Base Aggregate Dense 3/4-Inch	1,049.000 TON	_____._____	_____._____
0076	305.0120 Base Aggregate Dense 1 1/4-Inch	73,412.000 TON	_____._____	_____._____
0078	310.0110 Base Aggregate Open-Graded	123.000 TON	_____._____	_____._____
0080	312.0110 Select Crushed Material	76,178.000 TON	_____._____	_____._____
0082	320.0155 Concrete Base 9-Inch	3,175.000 SY	_____._____	_____._____
0084	371.2000.S QMP Base Aggregate Dense 1 1/4-Inch Compaction	64.000 EACH	_____._____	_____._____
0086	405.0200 Coloring Concrete Custom	678.000 CY	_____._____	_____._____
0088	416.0170 Concrete Driveway 7-Inch	943.000 SY	_____._____	_____._____
0090	416.0512 Concrete Truck Apron 12-Inch	990.000 SY	_____._____	_____._____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0092	416.0610 Drilled Tie Bars	695.000 EACH	_____.____	_____.____
0094	416.0620 Drilled Dowel Bars	16.000 EACH	_____.____	_____.____
0096	455.0605 Tack Coat	4,377.000 GAL	_____.____	_____.____
0098	460.2000 Incentive Density HMA Pavement	15,330.000 DOL	1.00000	15,330.00
0100	460.5224 HMA Pavement 4 LT 58-28 S	1,048.000 TON	_____.____	_____.____
0102	460.6223 HMA Pavement 3 MT 58-28 S	12,709.000 TON	_____.____	_____.____
0104	460.6424 HMA Pavement 4 MT 58-28 H	7,737.000 TON	_____.____	_____.____
0106	465.0120 Asphaltic Surface Driveways and Field Entrances	463.000 TON	_____.____	_____.____
0108	465.0125 Asphaltic Surface Temporary	3,870.000 TON	_____.____	_____.____
0110	465.0310 Asphaltic Curb	785.000 LF	_____.____	_____.____
0112	465.0315 Asphaltic Flumes	13.000 SY	_____.____	_____.____
0114	495.1000.S Cold patch	25.000 TON	_____.____	_____.____
0116	502.0100 Concrete Masonry Bridges	69.000 CY	_____.____	_____.____
0118	502.3101 Expansion Device	24.000 LF	_____.____	_____.____
0120	502.3200 Protective Surface Treatment	207.000 SY	_____.____	_____.____
0122	502.3210 Pigmented Surface Sealer	1,208.000 SY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0124	504.0500 Concrete Masonry Retaining Walls	369.000 CY	_____.____	_____.____
0126	505.0400 Bar Steel Reinforcement HS Structures	2,020.000 LB	_____.____	_____.____
0128	505.0600 Bar Steel Reinforcement HS Coated Structures	34,225.000 LB	_____.____	_____.____
0130	506.8006.S Prefabricated Steel Truss Pedestrian Bridge LRFD (structure) 01. B-13-892	1.000 EACH	_____.____	_____.____
0132	513.8016 Railing Steel Pedestrian Type C3	303.000 LF	_____.____	_____.____
0134	516.0500 Rubberized Membrane Waterproofing	97.000 SY	_____.____	_____.____
0136	517.1000 Painting Epoxy System Steel Truss (structure) 01. B-13-892	 LS	LUMP SUM	_____.____
0138	517.1010.S Concrete Staining (structure) 01. R-13-362	450.000 SF	_____.____	_____.____
0140	517.1015.S Concrete Staining Multi-Color (structure) 01. R-13-362	450.000 SF	_____.____	_____.____
0142	517.1050.S Architectural Surface Treatment (structure) 01. R-13-363	1,010.000 SF	_____.____	_____.____
0144	517.1050.S Architectural Surface Treatment (structure) 02. R-13-365	270.000 SF	_____.____	_____.____
0146	517.1050.S Architectural Surface Treatment (structure) 03. R-13-366	3,335.000 SF	_____.____	_____.____
0148	517.1050.S Architectural Surface Treatment (structure) 04. R-13-367	1,665.000 SF	_____.____	_____.____
0150	520.1012 Apron Endwalls for Culvert Pipe 12-Inch	4.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0152	520.1015 Apron Endwalls for Culvert Pipe 15-Inch	2.000 EACH	_____.____	_____.____
0154	520.1018 Apron Endwalls for Culvert Pipe 18-Inch	3.000 EACH	_____.____	_____.____
0156	520.1024 Apron Endwalls for Culvert Pipe 24-Inch	5.000 EACH	_____.____	_____.____
0158	520.1036 Apron Endwalls for Culvert Pipe 36-Inch	1.000 EACH	_____.____	_____.____
0160	520.1054 Apron Endwalls for Culvert Pipe 54-Inch	1.000 EACH	_____.____	_____.____
0162	520.2012 Culvert Pipe Temporary 12-Inch	119.000 LF	_____.____	_____.____
0164	520.2018 Culvert Pipe Temporary 18-Inch	124.000 LF	_____.____	_____.____
0166	520.2024 Culvert Pipe Temporary 24-Inch	148.000 LF	_____.____	_____.____
0168	520.2036 Culvert Pipe Temporary 36-Inch	25.000 LF	_____.____	_____.____
0170	520.2054 Culvert Pipe Temporary 54-Inch	70.000 LF	_____.____	_____.____
0172	520.3315 Culvert Pipe Class III-A 15-Inch	45.000 LF	_____.____	_____.____
0174	520.3318 Culvert Pipe Class III-A 18-Inch	34.000 LF	_____.____	_____.____
0176	520.8000 Concrete Collars for Pipe	17.000 EACH	_____.____	_____.____
0178	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	1.000 EACH	_____.____	_____.____
0180	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	1.000 EACH	_____.____	_____.____
0182	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	7.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0184	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	1.000 EACH	_____.____	_____.____
0186	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	4.000 EACH	_____.____	_____.____
0188	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	5.000 EACH	_____.____	_____.____
0190	522.1060 Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	2.000 EACH	_____.____	_____.____
0192	524.0115 Culvert Pipe Salvaged 15-Inch	40.000 LF	_____.____	_____.____
0194	524.0618 Apron Endwalls for Culvert Pipe Salvaged 18-Inch	1.000 EACH	_____.____	_____.____
0196	550.0020 Pre-Boring Rock or Consolidated Materials	18.000 LF	_____.____	_____.____
0198	550.1100 Piling Steel HP 10-Inch X 42 Lb	126.000 LF	_____.____	_____.____
0200	601.0405 Concrete Curb & Gutter 18-Inch Type A	617.000 LF	_____.____	_____.____
0202	601.0407 Concrete Curb & Gutter 18-Inch Type D	564.000 LF	_____.____	_____.____
0204	601.0557 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	2,672.000 LF	_____.____	_____.____
0206	601.0580 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	855.000 LF	_____.____	_____.____
0208	601.0600 Concrete Curb Pedestrian	629.000 LF	_____.____	_____.____
0210	602.0410 Concrete Sidewalk 5-Inch	64,770.000 SF	_____.____	_____.____
0212	602.0420 Concrete Sidewalk 7-Inch	20,285.000 SF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0214	602.0515 Curb Ramp Detectable Warning Field Natural Patina	990.000 SF	_____.____	_____.____
0216	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	60.000 SF	_____.____	_____.____
0218	603.8000 Concrete Barrier Temporary Precast Delivered	5,940.000 LF	_____.____	_____.____
0220	603.8125 Concrete Barrier Temporary Precast Installed	5,940.000 LF	_____.____	_____.____
0222	603.8500 Anchoring Concrete Barrier Temporary Precast	2,620.000 LF	_____.____	_____.____
0224	604.0400 Slope Paving Concrete	12.000 SY	_____.____	_____.____
0226	606.0100 Riprap Light	30.000 CY	_____.____	_____.____
0228	606.0200 Riprap Medium	80.000 CY	_____.____	_____.____
0230	606.0300 Riprap Heavy	210.000 CY	_____.____	_____.____
0232	606.0700 Grouted Riprap Heavy	235.000 CY	_____.____	_____.____
0234	608.0005 Storm Sewer Rock Excavation	340.000 CY	_____.____	_____.____
0236	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	5,104.000 LF	_____.____	_____.____
0238	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	313.000 LF	_____.____	_____.____
0240	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	4,298.000 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
0242	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	920.000 LF	_____.____	_____.____
0244	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	873.000 LF	_____.____	_____.____
0246	608.0436 Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	474.000 LF	_____.____	_____.____
0248	608.0442 Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	600.000 LF	_____.____	_____.____
0250	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	1,181.000 LF	_____.____	_____.____
0252	608.0518 Storm Sewer Pipe Reinforced Concrete Class V 18-Inch	52.000 LF	_____.____	_____.____
0254	608.0524 Storm Sewer Pipe Reinforced Concrete Class V 24-Inch	86.000 LF	_____.____	_____.____
0256	608.0548 Storm Sewer Pipe Reinforced Concrete Class V 48-Inch	99.000 LF	_____.____	_____.____
0258	608.0560 Storm Sewer Pipe Reinforced Concrete Class V 60-Inch	356.000 LF	_____.____	_____.____
0260	608.2429 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	114.000 LF	_____.____	_____.____
0262	611.0420 Reconstructing Manholes	1.000 EACH	_____.____	_____.____
0264	611.0430 Reconstructing Inlets	2.000 EACH	_____.____	_____.____
0266	611.0530 Manhole Covers Type J	21.000 EACH	_____.____	_____.____
0268	611.0535 Manhole Covers Type J-Special	12.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0270	611.0545 Manhole Covers Type L	2.000 EACH	_____.____	_____.____
0272	611.0603 Inlet Covers Type A-S	5.000 EACH	_____.____	_____.____
0274	611.0612 Inlet Covers Type C	2.000 EACH	_____.____	_____.____
0276	611.0624 Inlet Covers Type H	114.000 EACH	_____.____	_____.____
0278	611.0627 Inlet Covers Type HM	4.000 EACH	_____.____	_____.____
0280	611.0639 Inlet Covers Type H-S	27.000 EACH	_____.____	_____.____
0282	611.0642 Inlet Covers Type MS	5.000 EACH	_____.____	_____.____
0284	611.0645 Inlet Covers Type MS-A	9.000 EACH	_____.____	_____.____
0286	611.0651 Inlet Covers Type S	1.000 EACH	_____.____	_____.____
0288	611.0652 Inlet Covers Type T	6.000 EACH	_____.____	_____.____
0290	611.2004 Manholes 4-FT Diameter	10.000 EACH	_____.____	_____.____
0292	611.2005 Manholes 5-FT Diameter	13.000 EACH	_____.____	_____.____
0294	611.2006 Manholes 6-FT Diameter	6.000 EACH	_____.____	_____.____
0296	611.2007 Manholes 7-FT Diameter	18.000 EACH	_____.____	_____.____
0298	611.2008 Manholes 8-FT Diameter	4.000 EACH	_____.____	_____.____
0300	611.3003 Inlets 3-FT Diameter	5.000 EACH	_____.____	_____.____
0302	611.3004 Inlets 4-FT Diameter	49.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0304	611.3220 Inlets 2x2-FT	1.000 EACH	_____.____	_____.____
0306	611.3230 Inlets 2x3-FT	76.000 EACH	_____.____	_____.____
0308	611.3901 Inlets Median 1 Grate	10.000 EACH	_____.____	_____.____
0310	611.3902 Inlets Median 2 Grate	2.000 EACH	_____.____	_____.____
0312	611.8110 Adjusting Manhole Covers	1.000 EACH	_____.____	_____.____
0314	611.8115 Adjusting Inlet Covers	3.000 EACH	_____.____	_____.____
0316	611.8120.S Cover Plates Temporary	25.000 EACH	_____.____	_____.____
0318	611.9800.S Pipe Grates	21.000 EACH	_____.____	_____.____
0320	612.0206 Pipe Underdrain Unperforated 6-Inch	28.000 LF	_____.____	_____.____
0322	612.0406 Pipe Underdrain Wrapped 6-Inch	5,205.000 LF	_____.____	_____.____
0324	612.0902.S Insulation Board Polystyrene (inch) 01. 2-Inch	434.000 SY	_____.____	_____.____
0326	614.0905 Crash Cushions Temporary	17.000 EACH	_____.____	_____.____
0328	616.0406 Fence Chain Link Salvaged 6-FT	16.000 LF	_____.____	_____.____
0330	616.0700.S Fence Safety	1,267.000 LF	_____.____	_____.____
0332	618.0100 Maintenance And Repair of Haul Roads (project) 01. 5310-02-75	1.000 EACH	_____.____	_____.____
0334	619.1000 Mobilization	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0336	620.0300 Concrete Median Sloped Nose	1,604.000 SF	_____.____	_____.____
0338	623.0200 Dust Control Surface Treatment	67,300.000 SY	_____.____	_____.____
0340	624.0100 Water	1,484.100 MGAL	_____.____	_____.____
0342	625.0100 Topsoil	111,621.000 SY	_____.____	_____.____
0344	627.0200 Mulching	55,605.000 SY	_____.____	_____.____
0346	628.1504 Silt Fence	17,820.000 LF	_____.____	_____.____
0348	628.1520 Silt Fence Maintenance	35,650.000 LF	_____.____	_____.____
0350	628.1905 Mobilizations Erosion Control	27.000 EACH	_____.____	_____.____
0352	628.1910 Mobilizations Emergency Erosion Control	20.000 EACH	_____.____	_____.____
0354	628.2002 Erosion Mat Class I Type A	43,465.000 SY	_____.____	_____.____
0356	628.2027 Erosion Mat Class II Type C	16,619.000 SY	_____.____	_____.____
0358	628.2039 Erosion Mat Class III Type D	2,832.000 SY	_____.____	_____.____
0360	628.7005 Inlet Protection Type A	162.000 EACH	_____.____	_____.____
0362	628.7010 Inlet Protection Type B	20.000 EACH	_____.____	_____.____
0364	628.7015 Inlet Protection Type C	125.000 EACH	_____.____	_____.____
0366	628.7020 Inlet Protection Type D	39.000 EACH	_____.____	_____.____
0368	628.7504 Temporary Ditch Checks	2,363.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0370	628.7515.S Stone Ditch Checks	21.000 CY	_____.____	_____.____
0372	628.7555 Culvert Pipe Checks	57.000 EACH	_____.____	_____.____
0374	628.7560 Tracking Pads	21.000 EACH	_____.____	_____.____
0376	629.0210 Fertilizer Type B	60.800 CWT	_____.____	_____.____
0378	630.0110 Seeding Mixture No. 10	394.500 LB	_____.____	_____.____
0380	630.0140 Seeding Mixture No. 40	648.800 LB	_____.____	_____.____
0382	630.0500 Seed Water	2,338.600 MGAL	_____.____	_____.____
0384	631.0300 Sod Water	759.400 MGAL	_____.____	_____.____
0386	631.1000 Sod Lawn	28,250.000 SY	_____.____	_____.____
0388	631.1100 Sod Erosion Control	4.000 SY	_____.____	_____.____
0390	632.0101 Trees (species) (size) (root) 01. Chokeberry, common, Prunus virginiana, B&B, 1.5" CAL.	13.000 EACH	_____.____	_____.____
0392	632.0101 Trees (species) (size) (root) 02. Hawthorn, Cockspur, Crataegus crusgalli, B&B, 1.5" CAL.	12.000 EACH	_____.____	_____.____
0394	632.0101 Trees (species) (size) (root) 03. Maple, Amur, Acer Ginnala, B&B, 1.5" CAL.	10.000 EACH	_____.____	_____.____
0396	632.0101 Trees (species) (size) (root) 04. Redbud, Eastern, Cercis canadensis, B&B, 1.5" CAL.	11.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0398	632.0101 Trees (species) (size) (root) 05. Maple, Miyabei, Acer miyabei, B&B, 2" CAL.	13.000 EACH	_____.____	_____.____
0400	632.0101 Trees (species) (size) (root) 06. Yellowwood, Fabaceae, B&B, 2" CAL.	13.000 EACH	_____.____	_____.____
0402	632.0101 Trees (species) (size) (root) 07. Coffeetree, Kentucky, Gymnocladus dioicus, B&B, 2" CAL.	8.000 EACH	_____.____	_____.____
0404	632.0101 Trees (species) (size) (root) 08. Hackberry, Common, Cletis occidentalis, B&B, 2" CAL.	7.000 EACH	_____.____	_____.____
0406	632.0101 Trees (species) (size) (root) 09. Honeylocust, Common Thornless, Gleditsia triacanthos inermis, B&B, 2" CAL.	6.000 EACH	_____.____	_____.____
0408	632.0101 Trees (species) (size) (root) 10. Maple, Freeman, Acer X Freemanii, B&B, 2" CAL.	6.000 EACH	_____.____	_____.____
0410	632.0101 Trees (species) (size) (root) 11. Oak, Bur, Quercus macrocarpa, B&B, 2" CAL.	6.000 EACH	_____.____	_____.____
0412	632.0101 Trees (species) (size) (root) 12. Oak, Swamp White, Quercus bicolor, B&B, 2" CAL.	6.000 EACH	_____.____	_____.____
0414	632.0101 Trees (species) (size) (root) 13. Spruce, White, Picea glauca, B&B, 6' HT.	92.000 EACH	_____.____	_____.____
0416	632.9101 Landscape Planting Surveillance and Care Cycles	10.000 EACH	_____.____	_____.____
0418	633.5200 Markers Culvert End	20.000 EACH	_____.____	_____.____
0420	634.0614 Posts Wood 4x6-Inch X 14-FT	5.000 EACH	_____.____	_____.____

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0422	634.0616 Posts Wood 4x6-Inch X 16-FT	17.000 EACH	_____.____	_____.____
0424	634.0618 Posts Wood 4x6-Inch X 18-FT	11.000 EACH	_____.____	_____.____
0426	637.2210 Signs Type II Reflective H	504.610 SF	_____.____	_____.____
0428	637.2215 Signs Type II Reflective H Folding	40.200 SF	_____.____	_____.____
0430	637.2230 Signs Type II Reflective F	161.000 SF	_____.____	_____.____
0432	638.2102 Moving Signs Type II	18.000 EACH	_____.____	_____.____
0434	638.2602 Removing Signs Type II	11.000 EACH	_____.____	_____.____
0436	638.3000 Removing Small Sign Supports	53.000 EACH	_____.____	_____.____
0438	640.1303.S Pond Liner Clay	15,305.000 CY	_____.____	_____.____
0440	643.0300 Traffic Control Drums	100,479.000 DAY	_____.____	_____.____
0442	643.0410 Traffic Control Barricades Type II	4,693.000 DAY	_____.____	_____.____
0444	643.0420 Traffic Control Barricades Type III	34,737.000 DAY	_____.____	_____.____
0446	643.0500 Traffic Control Flexible Tubular Marker Posts	9.000 EACH	_____.____	_____.____
0448	643.0600 Traffic Control Flexible Tubular Marker Bases	9.000 EACH	_____.____	_____.____
0450	643.0705 Traffic Control Warning Lights Type A	67,044.000 DAY	_____.____	_____.____
0452	643.0715 Traffic Control Warning Lights Type C	14,207.000 DAY	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0454	643.0800 Traffic Control Arrow Boards	65.000 DAY	_____.____	_____.____
0456	643.0900 Traffic Control Signs	79,760.000 DAY	_____.____	_____.____
0458	643.0910 Traffic Control Covering Signs Type I	6.000 EACH	_____.____	_____.____
0460	643.0920 Traffic Control Covering Signs Type II	17.000 EACH	_____.____	_____.____
0462	643.1000 Traffic Control Signs Fixed Message	146.200 SF	_____.____	_____.____
0464	643.1050 Traffic Control Signs PCMS	89.000 DAY	_____.____	_____.____
0466	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0468	644.1410 Temporary Pedestrian Surface Asphalt	3,465.000 SF	_____.____	_____.____
0470	644.1420 Temporary Pedestrian Surface Plywood	100.000 SF	_____.____	_____.____
0472	644.1430 Temporary Pedestrian Surface Plate	100.000 SF	_____.____	_____.____
0474	644.1601 Temporary Pedestrian Curb Ramp	853.000 DAY	_____.____	_____.____
0476	644.1810 Temporary Pedestrian Barricade	100.000 LF	_____.____	_____.____
0478	645.0120 Geotextile Type HR	2,925.000 SY	_____.____	_____.____
0480	645.0130 Geotextile Type R	165.000 SY	_____.____	_____.____
0482	645.0140 Geotextile Type SAS	1,295.000 SY	_____.____	_____.____
0484	646.1020 Marking Line Epoxy 4-Inch	21,331.000 LF	_____.____	_____.____
0486	646.3020 Marking Line Epoxy 8-Inch	5,017.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0488	646.5020 Marking Arrow Epoxy	47.000 EACH	_____.____	_____.____
0490	646.5120 Marking Word Epoxy	7.000 EACH	_____.____	_____.____
0492	646.5320 Marking Railroad Crossings Epoxy	4.000 EACH	_____.____	_____.____
0494	646.6120 Marking Stop Line Epoxy 18-Inch	227.000 LF	_____.____	_____.____
0496	646.6320 Marking Dotted Extension Epoxy 18-Inch	268.000 LF	_____.____	_____.____
0498	646.6464 Cold Weather Marking Epoxy 4-Inch	16,647.000 LF	_____.____	_____.____
0500	646.7120 Marking Diagonal Epoxy 12-Inch	49.000 LF	_____.____	_____.____
0502	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,474.000 LF	_____.____	_____.____
0504	646.8120 Marking Curb Epoxy	662.000 LF	_____.____	_____.____
0506	646.8220 Marking Island Nose Epoxy	21.000 EACH	_____.____	_____.____
0508	646.9010 Marking Removal Line Water Blasting 4-Inch	10,329.000 LF	_____.____	_____.____
0510	646.9210 Marking Removal Line Water Blasting Wide	642.000 LF	_____.____	_____.____
0512	646.9310 Marking Removal Special Marking Water Blasting	9.000 EACH	_____.____	_____.____
0514	649.0105 Temporary Marking Line Paint 4-Inch	27,865.000 LF	_____.____	_____.____
0516	649.0150 Temporary Marking Line Removable Tape 4-Inch	46,985.000 LF	_____.____	_____.____

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Federal ID(s): WISC 2022382, WISC 2022380, N/A

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0518	649.0250 Temporary Marking Line Removable Tape 8-Inch	440.000 LF	_____.____	_____.____
0520	649.0550 Temporary Marking Arrow Removable Tape	1.000 EACH	_____.____	_____.____
0522	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	294.000 LF	_____.____	_____.____
0524	650.4000 Construction Staking Storm Sewer	239.000 EACH	_____.____	_____.____
0526	650.4500 Construction Staking Subgrade	20,040.000 LF	_____.____	_____.____
0528	650.5000 Construction Staking Base	20,040.000 LF	_____.____	_____.____
0530	650.5500 Construction Staking Curb Gutter and Curb & Gutter	36,850.000 LF	_____.____	_____.____
0532	650.6500 Construction Staking Structure Layout (structure) 01. B-13-892	LS	LUMP SUM	_____.____
0534	650.6500 Construction Staking Structure Layout (structure) 02. R-13-362	LS	LUMP SUM	_____.____
0536	650.6500 Construction Staking Structure Layout (structure) 03. R-13-363	LS	LUMP SUM	_____.____
0538	650.6500 Construction Staking Structure Layout (structure) 04. R-13-364	LS	LUMP SUM	_____.____
0540	650.6500 Construction Staking Structure Layout (structure) 05. R-13-365	LS	LUMP SUM	_____.____
0542	650.6500 Construction Staking Structure Layout (structure) 06. R-13-366	LS	LUMP SUM	_____.____
0544	650.6500 Construction Staking Structure Layout (structure) 07. R-13-367	LS	LUMP SUM	_____.____

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Federal ID(s): WISC 2022382, WISC 2022380, 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
0546	650.6500 Construction Staking Structure Layout (structure) 08. R-13-368	LS	LUMP SUM	_____.____
0548	650.6500 Construction Staking Structure Layout (structure) 09. R-13-369	LS	LUMP SUM	_____.____
0550	650.8500 Construction Staking Electrical Installations (project) 01. 5992-11-01	LS	LUMP SUM	_____.____
0552	650.8500 Construction Staking Electrical Installations (project) 02. 5310-02-75	LS	LUMP SUM	_____.____
0554	650.9000 Construction Staking Curb Ramps	52.000 EACH	_____.____	_____.____
0556	650.9910 Construction Staking Supplemental Control (project) 01. 5992-11-01	LS	LUMP SUM	_____.____
0558	650.9910 Construction Staking Supplemental Control (project) 02. 5310-02-75	LS	LUMP SUM	_____.____
0560	650.9920 Construction Staking Slope Stakes	20,040.000 LF	_____.____	_____.____
0562	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	7,380.000 LF	_____.____	_____.____
0564	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	6,177.000 LF	_____.____	_____.____
0566	652.0615 Conduit Special 3-Inch	1,029.000 LF	_____.____	_____.____
0568	652.0700.S Install Conduit into Existing Item	2.000 EACH	_____.____	_____.____
0570	653.0140 Pull Boxes Steel 24x42-Inch	25.000 EACH	_____.____	_____.____
0572	653.0164 Pull Boxes Non-Conductive 24x42-Inch	14.000 EACH	_____.____	_____.____
0574	653.0905 Removing Pull Boxes	12.000 EACH	_____.____	_____.____

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Federal ID(s): WISC 2022382, WISC 2022380, 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
0576	654.0101 Concrete Bases Type 1	3.000 EACH	_____.____	_____.____
0578	654.0102 Concrete Bases Type 2	4.000 EACH	_____.____	_____.____
0580	654.0105 Concrete Bases Type 5	30.000 EACH	_____.____	_____.____
0582	654.0113 Concrete Bases Type 13	2.000 EACH	_____.____	_____.____
0584	654.0120 Concrete Bases Type 10-Special	2.000 EACH	_____.____	_____.____
0586	654.0215 Concrete Control Cabinet Bases Type 9	1.000 EACH	_____.____	_____.____
0588	654.0230 Concrete Control Cabinet Bases Type L30	2.000 EACH	_____.____	_____.____
0590	655.0250 Cable Traffic Signal 9-14 AWG	1,240.000 LF	_____.____	_____.____
0592	655.0260 Cable Traffic Signal 12-14 AWG	1,598.000 LF	_____.____	_____.____
0594	655.0270 Cable Traffic Signal 15-14 AWG	980.000 LF	_____.____	_____.____
0596	655.0305 Cable Type UF 2-12 AWG Grounded	2,678.000 LF	_____.____	_____.____
0598	655.0515 Electrical Wire Traffic Signals 10 AWG	824.000 LF	_____.____	_____.____
0600	655.0610 Electrical Wire Lighting 12 AWG	18,394.000 LF	_____.____	_____.____
0602	655.0615 Electrical Wire Lighting 10 AWG	11,656.000 LF	_____.____	_____.____
0604	655.0625 Electrical Wire Lighting 6 AWG	29,052.000 LF	_____.____	_____.____
0606	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. Pleasant View Road & Blackhawk Road	LS	LUMP SUM	_____.____

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Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0608	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. Pleasant View Road & Greenway Blvd	LS	LUMP SUM	_____.____
0610	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. Pleasant View Road & Quarry Road	LS	LUMP SUM	_____.____
0612	657.0100 Pedestal Bases	3.000 EACH	_____.____	_____.____
0614	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	4.000 EACH	_____.____	_____.____
0616	657.0315 Poles Type 4	4.000 EACH	_____.____	_____.____
0618	657.0352 Poles Type 10-Special	2.000 EACH	_____.____	_____.____
0620	657.0360 Poles Type 13	2.000 EACH	_____.____	_____.____
0622	657.0420 Traffic Signal Standards Aluminum 13-FT	3.000 EACH	_____.____	_____.____
0624	657.0541 Monotube Arms 40-FT-Special	2.000 EACH	_____.____	_____.____
0626	657.0550 Monotube Arms 50-FT	2.000 EACH	_____.____	_____.____
0628	657.0709 Luminaire Arms Truss Type 4-Inch Clamp 12-FT	4.000 EACH	_____.____	_____.____
0630	657.0812 Luminaire Arms Steel 12-FT	4.000 EACH	_____.____	_____.____
0632	657.0820 Luminaire Arms Steel Type 10 Pole Clamp 15-FT	1.000 EACH	_____.____	_____.____
0634	657.0825 Luminaire Arms Steel Type 13 Pole Clamp 15-FT	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
0636	658.0173 Traffic Signal Face 3S 12-Inch	12.000 EACH	_____.____	_____.____
0638	658.0174 Traffic Signal Face 4S 12-Inch	11.000 EACH	_____.____	_____.____
0640	658.0416 Pedestrian Signal Face 16-Inch	4.000 EACH	_____.____	_____.____
0642	658.0500 Pedestrian Push Buttons	6.000 EACH	_____.____	_____.____
0644	659.1125 Luminaires Utility LED C	8.000 EACH	_____.____	_____.____
0646	659.2130 Lighting Control Cabinets 120/240 30-Inch	2.000 EACH	_____.____	_____.____
0648	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	22.000 EACH	_____.____	_____.____
0650	661.0200 Temporary Traffic Signals for Intersections (location) 01. Pleasant View Road & Blackhawk Road	LS	LUMP SUM	_____.____
0652	661.0200 Temporary Traffic Signals for Intersections (location) 02. USH 14 and Pleasant View Road	LS	LUMP SUM	_____.____
0654	690.0150 Sawing Asphalt	10,742.000 LF	_____.____	_____.____
0656	690.0250 Sawing Concrete	4,177.000 LF	_____.____	_____.____
0658	715.0502 Incentive Strength Concrete Structures	500.000 DOL	1.00000	500.00
0660	740.0440 Incentive IRI Ride	11,180.000 DOL	1.00000	11,180.00
0662	999.1001.S Seismograph 01. 5992-11-01	1.000 EACH	_____.____	_____.____
0664	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,700.000 HRS	5.00000	13,500.00

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0666	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	7,560.000 HRS	5.00000	37,800.00
0668	SPV.0035 Special 02. Field Stone Riprap D50, 1.5-FT	397.000 CY	_____.____	_____.____
0670	SPV.0035 Special 03. Field Stone Riprap D50, 1-FT	237.000 CY	_____.____	_____.____
0672	SPV.0035 Special 04. Partially Grouted Field Stone Riprap D50, 2-FT	181.000 CY	_____.____	_____.____
0674	SPV.0035 Special 05. Partially Grouted Field Stone Riprap D50, 1.5-FT	42.000 CY	_____.____	_____.____
0676	SPV.0035 Special 06. Sanitary Sewer Rock Excavation	1,133.700 CY	_____.____	_____.____
0678	SPV.0035 Special 07. Water Main Rock Excavation	846.100 CY	_____.____	_____.____
0680	SPV.0060 Special 03. Sign Post Base For Concrete Installation	19.000 EACH	_____.____	_____.____
0682	SPV.0060 Special 04. Precast Sign Post Base	54.000 EACH	_____.____	_____.____
0684	SPV.0060 Special 05. Utility Line Opening (ULO)	57.000 EACH	_____.____	_____.____
0686	SPV.0060 Special 06. Storm Sewer Tap	1.000 EACH	_____.____	_____.____
0688	SPV.0060 Special 07. Street Light Removal	6.000 EACH	_____.____	_____.____
0690	SPV.0060 Special 08. Locate and Reference Property Corners	29.000 EACH	_____.____	_____.____
0692	SPV.0060 Special 09. Reset Property Corners	29.000 EACH	_____.____	_____.____
0694	SPV.0060 Special 11. Clay Anti-Seepage Collar	2.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0696	SPV.0060 Special 12. Clay Anti-Seepage Collar Twin 48-Inch SSPRC	1.000 EACH	_____.____	_____.____
0698	SPV.0060 Special 13. Concrete Cutoff Wall	20.000 EACH	_____.____	_____.____
0700	SPV.0060 Special 14. Pyramidal Inlet Grate 8X18	1.000 EACH	_____.____	_____.____
0702	SPV.0060 Special 15. Inlet PV536	1.000 EACH	_____.____	_____.____
0704	SPV.0060 Special 16. Inlet PV3581	1.000 EACH	_____.____	_____.____
0706	SPV.0060 Special 17. Luminaires Single Arm LED-City of Madison	10.000 EACH	_____.____	_____.____
0708	SPV.0060 Special 18. Luminaires Double Arm LED-City of Madison	14.000 EACH	_____.____	_____.____
0710	SPV.0060 Special 19. Luminaires Single Arm LED-City of Middleton	3.000 EACH	_____.____	_____.____
0712	SPV.0060 Special 20. Luminaires Double Arm LED-City of Middleton	27.000 EACH	_____.____	_____.____
0714	SPV.0060 Special 21. Lighting Control Cabinet-City of Madison	1.000 EACH	_____.____	_____.____
0716	SPV.0060 Special 22. Poles 30-FT 11 Gauge, Simplex-City of Madison	24.000 EACH	_____.____	_____.____
0718	SPV.0060 Special 23. Poles 30-FT-City of Middleton	30.000 EACH	_____.____	_____.____
0720	SPV.0060 Special 24. Concrete Base Type LB-3-City of Madison	24.000 EACH	_____.____	_____.____
0722	SPV.0060 Special 25. Concrete Base Type P-City of Madison	1.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0724	SPV.0060 Special 26. Electrical Pullbox Type I-City of Madison	23.000 EACH	_____.____	_____.____
0726	SPV.0060 Special 27. Manholes 9-FT Diameter	2.000 EACH	_____.____	_____.____
0728	SPV.0060 Special 28. Inlet Covers Type DW	2.000 EACH	_____.____	_____.____
0730	SPV.0060 Special 29. Terrace Inlet Type II	4.000 EACH	_____.____	_____.____
0732	SPV.0060 Special 30. Weir Wall PV4154	1.000 EACH	_____.____	_____.____
0734	SPV.0060 Special 31. Weir Wall PV4393	1.000 EACH	_____.____	_____.____
0736	SPV.0060 Special 32. Weir Wall PV499	1.000 EACH	_____.____	_____.____
0738	SPV.0060 Special 33. Weir Wall PV5095	1.000 EACH	_____.____	_____.____
0740	SPV.0060 Special 34. Manhole Frame with Chimney	12.000 EACH	_____.____	_____.____
0742	SPV.0060 Special 35. Connect to Existing Sanitary Sewer	1.000 EACH	_____.____	_____.____
0744	SPV.0060 Special 36. Sanitary Sewer Access Structure (4-Foot Diameter)	9.000 EACH	_____.____	_____.____
0746	SPV.0060 Special 37. Sanitary Sewer Stub Cap	1.000 EACH	_____.____	_____.____
0748	SPV.0060 Special 38. Drop Sanitary Sewer Access Structure (5-Foot Diameter)	1.000 EACH	_____.____	_____.____
0750	SPV.0060 Special 39. Adjust Sanitary Sewer Access Structure Special	3.000 EACH	_____.____	_____.____
0752	SPV.0060 Special 40. Adjust Manhole Cover Special	6.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0754	SPV.0060 Special 41. Abandon Sanitary Sewer Pipe Plug	1.000 EACH	_____.____	_____.____
0756	SPV.0060 Special 42. Construction Staking Sanitary Sewer	1.000 EACH	_____.____	_____.____
0758	SPV.0060 Special 43. Wastewater Control	1.000 EACH	_____.____	_____.____
0760	SPV.0060 Special 44. Sanitary Sewer Dewatering	1.000 EACH	_____.____	_____.____
0762	SPV.0060 Special 45. Salvage and Reset Hydrant with Auxiliary Valve	3.000 EACH	_____.____	_____.____
0764	SPV.0060 Special 46. Middleton Furnish and Install Hydrant	15.000 EACH	_____.____	_____.____
0766	SPV.0060 Special 47. Cut Off Existing Water Main	2.000 EACH	_____.____	_____.____
0768	SPV.0060 Special 48. Abandon Water Valve Box	5.000 EACH	_____.____	_____.____
0770	SPV.0060 Special 49. Abandon Hydrant	5.000 EACH	_____.____	_____.____
0772	SPV.0060 Special 50. Adjust Water Valve Box	13.000 EACH	_____.____	_____.____
0774	SPV.0060 Special 51. Furnish & Install Valve 6-Inch	15.000 EACH	_____.____	_____.____
0776	SPV.0060 Special 52. Furnish & Install Valve 10-Inch	1.000 EACH	_____.____	_____.____
0778	SPV.0060 Special 53. Furnish & Install Valve 12-Inch	12.000 EACH	_____.____	_____.____
0780	SPV.0060 Special 54. Furnish & Install Valve 10-Inch Live Tap	1.000 EACH	_____.____	_____.____
0782	SPV.0060 Special 55. Water Vault and Casting	13.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0784	SPV.0060 Special 56. Adjust Water Vault and Casting	1.000 EACH	_____.____	_____.____
0786	SPV.0060 Special 57. Abandon Water Vault	3.000 EACH	_____.____	_____.____
0788	SPV.0060 Special 58. 12-Inch Check Valve, 2 12-Inch Isolation Valves and Vault	1.000 EACH	_____.____	_____.____
0790	SPV.0060 Special 59. Cut-In Connection	11.000 EACH	_____.____	_____.____
0792	SPV.0060 Special 60. Temporary Hydrant	1.000 EACH	_____.____	_____.____
0794	SPV.0060 Special 61. Construction Staking Water Main	1.000 EACH	_____.____	_____.____
0796	SPV.0060 Special 62. Water Main Dewatering	1.000 EACH	_____.____	_____.____
0798	SPV.0060 Special 63. Swallowtail Pond Outlet Control Structure	1.000 EACH	_____.____	_____.____
0800	SPV.0060 Special 64. Pond Dewatering Swallowtail Pond	1.000 EACH	_____.____	_____.____
0802	SPV.0060 Special 65. Pond Dewatering Pond D	1.000 EACH	_____.____	_____.____
0804	SPV.0060 Special 66. Pond Dewatering Pond F	1.000 EACH	_____.____	_____.____
0806	SPV.0060 Special 67. Transport State Furnished Cameras (USH 14 & Pleasant View Road)	2.000 EACH	_____.____	_____.____
0808	SPV.0060 Special 68. Transport SF Radar Detection System (USH 14 & Pleasant View Rd)	2.000 EACH	_____.____	_____.____
0810	SPV.0060 Special 69. Transport State Furnished Blank Out Sign (USH 14 & Pleasant View Rd)	4.000 EACH	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0812	SPV.0060 Special 70. Electrical Pullbox Type V-City of Madison	2.000 EACH	_____.____	_____.____
0814	SPV.0060 Special 71. Electrical Pullbox Type VII-City of Madison	3.000 EACH	_____.____	_____.____
0816	SPV.0060 Special 72. Construction Staking Stormwater Management Ponds	4.000 EACH	_____.____	_____.____
0818	SPV.0060 Special 73. Remove Traffic Signals, Pleasant View Road & Blackhawk Road	1.000 EACH	_____.____	_____.____
0820	SPV.0060 Special 74. Arch Facade Plates	1.000 EACH	_____.____	_____.____
0822	SPV.0060 Special 75. Field Facilities Special	1.000 EACH	_____.____	_____.____
0824	SPV.0085 Special 01. Detention Basin Seed Mix	8.000 LB	_____.____	_____.____
0826	SPV.0085 Special 02. Tall Grass Prairie Seed Mix	19.000 LB	_____.____	_____.____
0828	SPV.0085 Special 03. No Mow Lawn Seed	295.000 LB	_____.____	_____.____
0830	SPV.0090 Special 01. Concrete Curb & Gutter 24-Inch Type A Special	12.000 LF	_____.____	_____.____
0832	SPV.0090 Special 02. Concrete Curb & Gutter 24-Inch Type D Special	13,623.000 LF	_____.____	_____.____
0834	SPV.0090 Special 03. Concrete Raised Median Nose Special	32.000 LF	_____.____	_____.____
0836	SPV.0090 Special 04. Sign Post	206.000 LF	_____.____	_____.____
0838	SPV.0090 Special 05. Reflective Sign Post	564.000 LF	_____.____	_____.____
0840	SPV.0090 Special 06. Sawing Curb Head	15.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0842	SPV.0090 Special 07. Abutment Anchorage	42.000 LF	_____.____	_____.____
0844	SPV.0090 Special 08. Fence Chain Link Polymer-Coated 4-FT R-13-362	100.000 LF	_____.____	_____.____
0846	SPV.0090 Special 09. Fence Chain Link Polymer-Coated 4-FT R-13-363	230.000 LF	_____.____	_____.____
0848	SPV.0090 Special 10. Trenchless Storm Sewer Construction, 12-Inch	30.000 LF	_____.____	_____.____
0850	SPV.0090 Special 11. Fence Chain Link Polymer-Coated 4-FT R-13-365	120.000 LF	_____.____	_____.____
0852	SPV.0090 Special 12. Fence Chain Link Polymer-Coated 4-FT R-13-366	470.000 LF	_____.____	_____.____
0854	SPV.0090 Special 13. Fence Chain Link Polymer-Coated 4-FT R-13-367	250.000 LF	_____.____	_____.____
0856	SPV.0090 Special 14. Fence Chain Link Polymer-Coated 4-FT R-13-369	550.000 LF	_____.____	_____.____
0858	SPV.0090 Special 15. Fence Chain Link Polymer-Coated 4-FT Landscape Walls	447.000 LF	_____.____	_____.____
0860	SPV.0090 Special 16. Storm Sewer Pipe PVC 10-Inch	135.000 LF	_____.____	_____.____
0862	SPV.0090 Special 17. Trenchless Storm Sewer Construction, 48-Inch	50.000 LF	_____.____	_____.____
0864	SPV.0090 Special 18. Sanitary Sewer Pipe PVC, 8-Inch	1,536.000 LF	_____.____	_____.____
0866	SPV.0090 Special 19. Sanitary Sewer Pipe PVC, 10-Inch	180.000 LF	_____.____	_____.____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0868	SPV.0090 Special 20. Select Fill for Sanitary Sewer	1,716.000 LF	_____.____	_____.____
0870	SPV.0090 Special 21. 10-Inch Diameter Sanitary Sewer Inside Casing	30.000 LF	_____.____	_____.____
0872	SPV.0090 Special 22. Water Main 20-Inch Casing Pipe	280.000 LF	_____.____	_____.____
0874	SPV.0090 Special 23. 12-Inch Trenchless Water Main	280.000 LF	_____.____	_____.____
0876	SPV.0090 Special 24. Furnish and Install Water Main Pipe & Fittings-City of Madison 6-Inch	30.000 LF	_____.____	_____.____
0878	SPV.0090 Special 25. Furnish and Install Water Main Pipe & Fittings-City of Madison 12-Inch	28.000 LF	_____.____	_____.____
0880	SPV.0090 Special 26. Furnish and Install Water Main Pipe & Fittings-City of Middleton 6-Inch	279.000 LF	_____.____	_____.____
0882	SPV.0090 Special 27. Furnish and Install Water Main Pipe & Fittings-City of Middleton 10-Inch	104.000 LF	_____.____	_____.____
0884	SPV.0090 Special 28. Furnish and Install Water Main Pipe & Fittings-City of Middleton 12-Inch	4,076.000 LF	_____.____	_____.____
0886	SPV.0090 Special 29. Select Fill for Water Main	4,799.000 LF	_____.____	_____.____
0888	SPV.0090 Special 30. Parapet Concrete Type 'TX'	1,120.000 LF	_____.____	_____.____
0890	SPV.0090 Special 31. Concrete Curb & Gutter 30-Inch Type A Special	28.000 LF	_____.____	_____.____

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SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0892	SPV.0090 Special 32. Concrete Curb & Gutter 30-Inch Type D Special	18,571.000 LF	_____.____	_____.____
0894	SPV.0090 Special 33. Fiber Optic Cable 144-Count	3,834.000 LF	_____.____	_____.____
0896	SPV.0090 Special 34. Marking Line Epoxy 6-Inch	3,377.000 LF	_____.____	_____.____
0898	SPV.0090 Special 35. Milling and Removing Longitudinal Joint	1,500.000 LF	_____.____	_____.____
0900	SPV.0120 Special 01. Water for Detention Pond	3,484.000 MGAL	_____.____	_____.____
0902	SPV.0165 Special 01. Wall Concrete Panel Mechanically Stabilized Earth R-13-363	1,585.000 SF	_____.____	_____.____
0904	SPV.0165 Special 02. Wall Concrete Panel Mechanically Stabilized Earth R-13-364	5,130.000 SF	_____.____	_____.____
0906	SPV.0165 Special 03. Wall Concrete Panel Mechanically Stabilized Earth R-13-365	570.000 SF	_____.____	_____.____
0908	SPV.0165 Special 04. Wall Concrete Panel Mechanically Stabilized Earth R-13-366	6,235.000 SF	_____.____	_____.____
0910	SPV.0165 Special 05. Wall Concrete Panel Mechanically Stabilized Earth R-13-367	2,405.000 SF	_____.____	_____.____
0912	SPV.0165 Special 06. Wall Concrete Panel Mechanically Stabilized Earth R-13-368	6,125.000 SF	_____.____	_____.____
0914	SPV.0165 Special 07. Wall Concrete Panel Mechanically Stabilized Earth R-13-369	3,945.000 SF	_____.____	_____.____
0916	SPV.0165 Special 08. Wall Modular Block Gravity Landscape Station 152+60	600.000 SF	_____.____	_____.____
0918	SPV.0165 Special 09. Wall Modular Block Gravity Landscape Station 175+25	165.000 SF	_____.____	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0920	SPV.0165 Special 10. Wall Modular Block Gravity Landscape Station 11+40 NS	1,560.000 SF	_____._____	_____._____
0922	SPV.0165 Special 11. Wall Modular Block Gravity R-13-362	450.000 SF	_____._____	_____._____
0924	SPV.0165 Special 12. Wall Modular Block Gravity Landscape Station 142+40	60.000 SF	_____._____	_____._____
0926	SPV.0165 Special 13. Architectural Surface Treatment, Special	1,845.000 SF	_____._____	_____._____
0928	SPV.0170 Special 01. Pavement Cleanup	199.000 STA	_____._____	_____._____
0930	SPV.0180 Special 01. Concrete Approach Slab, 6-Inch	22.000 SY	_____._____	_____._____
0932	SPV.0180 Special 03. Access Stabilization Geocell	1,413.000 SY	_____._____	_____._____
0934	SPV.0180 Special 04. Detention Basin Plug Mix	1,450.000 SY	_____._____	_____._____
	Section: 0001		Total:	_____._____

Total Bid: _____._____

PLEASE ATTACH ADDENDA HERE

Wisconsin Department of Transportation

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

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

September 6, 2022

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of September 13, 2022

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposals 01 – 17, 19 – 21, 23, and 25 – 28; WI 8 Heavy (Sewer & Water Line & Tunnel) Davis Bacon Prevailing Wage Rates that are included in proposal 06, and WI 15 Heavy Davis Bacon Prevailing Wage Rates that are included in proposal 28. These wage rates are effective for all proposals they are included in in the September 13, 2022 letting. The updated wage rates are dated August 12, 2022 and are effective on or after August 22, 2022.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractors.

Sincerely,

Mike Coleman
Proposal Development Specialist
Proposal Management Section

"General Decision Number: WI20220010 08/12/2022

Superseded General Decision Number: WI20210010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

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

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022

1	01/21/2022
2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	05/13/2022
8	06/17/2022
9	07/08/2022
10	07/22/2022
11	07/29/2022
12	08/12/2022

BRWI0001-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,

ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.78	24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0019-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST,

GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

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

CARP0264-003 06/01/2016

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

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

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

ELEC0014-002 12/26/2021

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:	$ 37.83	21.89

ELEC0014-007 05/30/2021

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 28.50	15.92

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

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

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	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

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

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

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

Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 41.37	69.25%

ELEC0388-002 05/30/2021

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

	Rates	Fringes
Electricians:	$ 36.22	26%+11.24

ELEC0430-002 06/01/2022

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 45.02	24.35

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 44.39	25.67

ELEC0494-006 06/01/2021

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

	Rates	Fringes
Electricians:	$ 37.91	22.74

ELEC0494-013 06/01/2021

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

	Rates	Fringes
Sound & Communications		
Installer	$ 22.39	18.80
Technician	$ 32.49	20.26

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic 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 06/01/2021

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

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

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

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

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 06/01/2022

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 43.27	25.95
Group 2	$ 42.77	25.95
Group 3	$ 42.27	25.95
Group 4	$ 42.01	25.95
Group 5	$ 41.72	25.95
Group 6	$ 35.82	25.95

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - $3.00 per hour
EPA Level ""B"" protection - $2.00 per hour
EPA Level ""C"" protection - $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

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

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; 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.

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* IRON0008-002 06/13/2022

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

	Rates	Fringes
IRONWORKER	$ 41.00	28.95

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

IRON0008-003 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

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

IRON0383-001 06/05/2022

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

	Rates	Fringes
IRONWORKER	$ 39.00	28.58

IRON0498-005 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

IRON0512-008 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 41.00	33.11

IRON0512-021 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 36.94	33.11

LABO0113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 32.65	23.09
Group 2	$ 32.80	23.09
Group 3	$ 33.00	23.09
Group 4	$ 33.15	23.09
Group 5	$ 33.30	23.09
Group 6	$ 29.14	23.09

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes

LABORER

Group 1	$ 31.90	23.09
Group 2	$ 32.00	23.09
Group 3	$ 32.05	23.09
Group 4	$ 32.25	23.09
Group 5	$ 32.10	23.09
Group 6	$ 28.99	23.09

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.71	23.09
Group 2	$ 31.86	23.09
Group 3	$ 32.06	23.09
Group 4	$ 32.03	23.09
Group 5	$ 32.36	23.09
Group 6	$ 28.85	23.09

LABORERS CLASSIFICATIONS:

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

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

	Rates	Fringes
LABORER		
Group 1	$ 36.42	18.68
Group 2	$ 36.52	18.68
Group 3	$ 36.57	18.68
Group 4	$ 36.77	18.68
Group 5	$ 36.62	18.68
Group 6	$ 33.05	18.68

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; 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 06/01/2022

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 36.70	18.68
Group 2	$ 36.80	18.68
Group 3	$ 36.85	18.68

Group 4	$ 37.05	18.68
Group 5	$ 36.90	18.68
Group 6	$ 33.05	18.68

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; 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 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 33.99	22.70
Spray, Sandblast, Steel	$ 34.59	22.70
Repaint:		
Brush, Roller	$ 33.09	22.70
Spray, Sandblast, Steel	$ 32.49	22.70

PAIN0108-002 06/01/2021

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 36.08	20.36
Spray & Sandblast	$ 37.52	23.27

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 06/01/2021

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 36.70	24.50
Brush	$ 35.95	24.50
Spray & Sandblast	$ 36.70	24.50

PAIN0802-002 06/01/2021

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

	Rates	Fringes
PAINTER		
Brush	$ 29.98	18.78

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2021

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

	Rates	Fringes
PAINTER	$ 29.98	18.78

PAIN0934-001 06/01/2021

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 36.52	23.27
Spray	$ 37.52	23.27
Structural Steel	$ 36.67	23.27

PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes

Painters:.....$ 26.71 14.38

PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

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

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

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 32.72	23.81
WELL DRILLER	$ 16.52	3.70

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

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours

they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

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

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

Survey Rate Identifiers

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

wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

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

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

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

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

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END OF GENERAL DECISIO"

"General Decision Number: WI20220008 08/12/2022

Superseded General Decision Number: WI20210008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	06/17/2022
8	07/08/2022
9	07/15/2022
10	07/29/2022
11	08/05/2022
12	08/12/2022

BRWI0001-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.78	24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0009-001 06/01/2021

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0013-002 06/01/2021

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

BRWI0019-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0021-002 06/01/2021

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.75	25.92

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

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

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

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

CARP0264-003 06/01/2016

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

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

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

CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A	$ 33.58	21.53
Zone B	$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 12/26/2021

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:	$ 37.83	21.89

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

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	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

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

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

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

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 41.37	69.25%

ELEC0388-002 05/30/2021

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

	Rates	Fringes
Electricians:	$ 36.22	26%+11.24

ELEC0430-002 06/01/2022

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 45.02	24.35

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 44.39	25.67

ELEC0494-006 06/01/2021

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

	Rates	Fringes
Electricians:	$ 37.91	22.74

ELEC0577-003 06/01/2021

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

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

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

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

ENGI0139-003 06/06/2022

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 45.22	24.85
Group 2	$ 43.97	24.85
Group 3	$ 41.57	24.85
Group 4	$ 41.04	24.85
Group 5	$ 38.97	24.85
Group 6	$ 37.44	24.85

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and 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 06/05/2022

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

Power Equipment Operator

Group 1	$ 43.54	24.85
Group 2	$ 42.76	24.85
Group 3	$ 41.81	24.85
Group 4	$ 40.76	24.85
Group 5	$ 39.36	24.85

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and\or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (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).

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* IRON0008-002 06/13/2022

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

	Rates	Fringes
IRONWORKER	$ 41.00	28.95

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

IRON0008-003 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

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

IRON0383-001 06/05/2022

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

	Rates	Fringes
IRONWORKER	$ 39.00	28.58

IRON0498-005 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

IRON0512-008 05/01/2022

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,

PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 41.00	33.11

IRON0512-021 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 36.94	33.11

LABO0113-004 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1	$ 17.62	21.98
Group 2	$ 19.89	21.98
Group 3	$ 23.43	21.98
Group 4	$ 32.80	21.98
Group 5	$ 32.94	21.98
Group 6	$ 33.00	21.98
Group 7	$ 36.85	21.98
Group 8	$ 39.67	21.98
Group 9	$ 40.31	21.98

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc; Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner; Pipe Layer; Rock Driller and Joint Man; Timber Man and Concrete Brusher; Bracer in Trench Behind Machine & Tight Sheeting; Concrete Formsetter and Shoveler; Jackhammer Operator

GROUP 9: Blaster

LABO0113-005 06/06/2022

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1	$ 24.29	21.98
Group 2	$ 30.22	21.98
Group 3	$ 34.42	21.98
Group 4	$ 36.19	21.98

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint 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 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1	$ 23.43	21.98
Group 2	$ 32.94	21.98
Group 3	$ 33.00	21.98
Group 4	$ 36.98	21.98
Group 5	$ 36.99	21.98
Group 6	$ 39.67	21.98
Group 7	$ 40.31	21.98

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

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* LABO0113-009 06/01/2022

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1	$ 23.43	21.98
Group 2	$ 32.94	21.98
Group 3	$ 37.39	21.98
Group 4	$ 38.19	21.98
Group 5	$ 38.31	21.98
Group 6	$ 41.01	21.98
Group 7	$ 41.63	21.98

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add $2.00 to all classifications
*Compressed Air over 30 lbs add $3.00 to all 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 06/06/2022

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

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1	$ 31.48	18.68

Group 2	$ 33.33	18.68
Group 3	$ 33.53	18.68
Group 4	$ 34.28	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint 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 06/06/2022

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.38	18.68
Group 2	$ 33.58	18.68
Group 3	$ 33.78	18.68
Group 4	$ 34.53	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add $1.00, 15- 30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint 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 06/06/2022

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes

Laborers: (SEWER & WATER)

Group 1	$ 31.17	18.68
Group 2	$ 33.23	18.68
Group 3	$ 33.43	18.68
Group 4	$ 34.18	18.68

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint 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

PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

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

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

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 32.72	23.81
WELL DRILLER	$ 16.52	3.70

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

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

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of

the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

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

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

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

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

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END OF GENERAL DECISIO"

"General Decision Number: WI20220015 08/12/2022

Superseded General Decision Number: WI20210015

State: Wisconsin

Construction Type: Heavy

Counties: Wisconsin Statewide.

HEAVY CONSTRUCTION PROJECTS (Excluding Tunnel, Sewer, and Water Lines).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	05/13/2022
8	06/17/2022
9	07/08/2022
10	07/29/2022
11	08/12/2022

BOIL0107-001 01/01/2021

	Rates	Fringes
BOILERMAKER		
Boilermaker	$ 39.52	31.50
Small Boiler Repair (under 25,000 lbs/hr)	$ 26.91	16.00

BRWI0001-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 37.78	24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0009-001 06/01/2021

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0013-002 06/01/2021

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

BRWI0019-002 06/01/2021

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

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0021-002 06/01/2021

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.75	25.92

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

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

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

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

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

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

CARP0264-003 06/01/2016

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

COUNTIES

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

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

CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A	$ 33.58	21.53
Zone B	$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 12/26/2021

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:	$ 37.83	21.89

ELEC0014-007 05/30/2021

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 28.50	15.92

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

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

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	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

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

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

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

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes

Electricians:.....$ 41.37 69.25%

ELEC0388-002 05/30/2021

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

	Rates	Fringes
Electricians:.....	$ 36.22	26%+11.24

ELEC0430-002 06/01/2022

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	$ 45.02	24.35

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	$ 44.39	25.67

ELEC0494-006 06/01/2021

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

	Rates	Fringes
Electricians:.....	$ 37.91	22.74

ELEC0494-013 06/01/2021

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

	Rates	Fringes
Sound & Communications		
Installer.....	$ 22.39	18.80
Technician.....	$ 32.49	20.26

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic 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 06/01/2021

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

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

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

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

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

ENGI0139-001 06/01/2022

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

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 49.01	25.30
Group 2	$ 48.51	25.30
Group 3	$ 48.01	25.30
Group 4	$ 47.17	25.30
Group 5	$ 43.39	25.30
Group 6	$ 38.24	25.30

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, Pedestal Tower Cranes and Derricks with or w/o attachments with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Self-Erecting Tower Cranes over 4000 lbs lifting capacity; All Cranes with Boom Dollies; Boring Machines (directional); Master Mechanic. $0.50 additional per hour per 100 tons or 100 ft of boom over 200 ft or lifting capacity of crane over 200 tons to a maximum of 300 tons or 300 ft. Thereafter an increase of $0.01 per ft or ton, whichever is greater.

GROUP 2: Cranes, Tower Cranes, Pedestal Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; or Cranes, Tower Cranes Portable Tower Cranes, Pedestal Tower Cranes and Derricks with boom, leadsand/or jib lengths measuring 175 feet or less; Backhoes (excavators) 130,000 lbs and over; Caisson Rigs; Pile Drivers; Boring Machines (vertical or horizontal), Versi-Lift, Tri-Lift, Gantry 20,000 lbs & over.

GROUP 3: Backhoe (excavator) under 130,000 lbs;Self-erecting Tower Crane 4000 lbs & under lifting capacity;Traveling Crane (bridge type); Skid Rigs; Dredge Operator; Mechanic; Concrete Paver (over 27E); Concrete Spreader and Distributor; Forklift/ Telehandler (machinery- moving / steel erection); Hydro Blaster, 10,000 psi and over

GROUP 4: Material Hoists; Stack Hoists; Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 5 tons or under (tractor or truck mounted); Hoist (tuggers 5 tons & over); Hydro-Excavators/Daylighters; Concrete Pumps Rotec type Conveyors; Tractor/Bulldozer/End Loader (over 40 hp); Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Rotary Drill Operator and Blaster; Percussion Drill Operator; Air Track Drill and/or Hammers; Gantrys (under 20,000 lbs); Tencher (wheel type or chain type having 8 inch or larger bucket); Milling Machine; Off-Road Material Haulers.

GROUP 5: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machines (road type); Rubber Tired Roller; Concrete Batch Hopper; Concrete Conveyor Systems; Grout Pumps; Concrete Mixers (14S or over); Screw Type Pumps and Gypsum Pumps; Tractor, Bulldozer, End Loader (under 40 hp); Trencher (chain type, bucket under 8 inch); Industrial Locomotives; Rollers under 5 tons; Stump Grinder/Chipper (Large); Timber Equipment; Firemen (pile drivers and derricks); Personnel Hoist, Telehandler over 8000 lbs; Robotic Tool Carrier with or without attachments

GROUP 6: Tampers - Compactors (riding type); Assistant Engineer; A-Frames and Winch Trucks; Concrete Auto Breaker; Hydrohammers (small); Brooms and Sweepers; Hoist (tuggers under 5 tons); Boats (Tug, Safety, Work Barges, Launch); Shouldering Machine Operator; Prestress Machines; Screed Operator; Stone Crushers and Screening Plants; Screed Operators (milling machine), Farm or Industrial Tractor

Mounted Equipment; Post Hole Digger; Fireman (asphalt plants); Air Compressors over 400 CFM; Generators, over 150 KW; Augers (vertical and horizontal); Air, Electric, Hydraulic Jacks (slipform); Skid Steer Loaders (with or without attachments); Boiler Operators (temporary heat); Refrigeration Plant/Freeze Machines; Power Pack Vibratory/Ultra Sound Drivers and Extractors; Welding Machines; Heaters (mechanical); Pumps; Winches (small electric); Oiler and Greaser; Rotary Drill Tender; Conveyor; Forklifts/Telehandler 8000 lbs & under; Elevators: Automatic Hoists; Pumps (well points); Combination Small Equipment Operators

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ENGI0139-003 06/06/2022

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 45.22	24.85
Group 2	$ 43.97	24.85
Group 3	$ 41.57	24.85
Group 4	$ 41.04	24.85
Group 5	$ 38.97	24.85
Group 6	$ 37.44	24.85

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie

Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and 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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* IRON0008-002 06/13/2022

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

	Rates	Fringes
IRONWORKER	$ 41.00	28.95

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

IRON0008-003 06/01/2021

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

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

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

IRON0383-001 06/05/2022

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA,

JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.00	28.58

IRON0512-008 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 41.00	33.11

IRON0512-021 05/01/2022

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

	Rates	Fringes
IRONWORKER	$ 36.94	33.11

LABO0113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 32.65	23.09
Group 2	$ 32.80	23.09
Group 3	$ 33.00	23.09
Group 4	$ 33.15	23.09
Group 5	$ 33.30	23.09
Group 6	$ 29.14	23.09

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.90	23.09
Group 2	$ 32.00	23.09
Group 3	$ 32.05	23.09
Group 4	$ 32.25	23.09
Group 5	$ 32.10	23.09
Group 6	$ 28.99	23.09

LABORERS CLASSIFICATIONS

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

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.71	23.09
Group 2	$ 31.86	23.09
Group 3	$ 32.06	23.09
Group 4	$ 32.03	23.09
Group 5	$ 32.36	23.09
Group 6	$ 28.85	23.09

LABORERS CLASSIFICATIONS:

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

Concrete Handler

GROUP 2: Air Tool Operator; Joint 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 06/01/2022

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

	Rates	Fringes
LABORER		
Group 1	$ 36.42	18.68
Group 2	$ 36.52	18.68
Group 3	$ 36.57	18.68
Group 4	$ 36.77	18.68
Group 5	$ 36.62	18.68
Group 6	$ 33.05	18.68

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; 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 06/01/2022

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 36.70	18.68
Group 2	$ 36.80	18.68
Group 3	$ 36.85	18.68
Group 4	$ 37.05	18.68
Group 5	$ 36.90	18.68
Group 6	$ 33.05	18.68

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; 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 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 33.99	22.70
Spray, Sandblast, Steel	$ 34.59	22.70
Repaint:		
Brush, Roller	$ 33.09	22.70
Spray, Sandblast, Steel	$ 32.49	22.70

PAIN0108-002 06/01/2021

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 36.08	20.36
Spray & Sandblast	$ 37.52	23.27

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 06/01/2021

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 36.70	24.50
Brush	$ 35.95	24.50
Spray & Sandblast	$ 36.70	24.50

PAIN0802-002 06/01/2021

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

	Rates	Fringes
PAINTER		
Brush	$ 29.98	18.78

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2021

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

	Rates	Fringes
PAINTER	$ 29.98	18.78

PAIN0934-001 06/01/2021

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes

Painters:
Brush.....$ 36.52 23.27
Spray.....$ 37.52 23.27
Structural Steel.....$ 36.67 23.27

PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 26.71	14.38

PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

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

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

AREA 6: KENOSHA AND RACINE COUNTIES

PLUM0011-003 05/07/2018

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
PLUMBER	$ 40.63	20.72

PLUM0075-002 06/01/2016

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
PLUMBER	$ 40.27	21.47

PLUM0075-004 06/01/2016

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
PLUMBER	$ 40.52	21.47

PLUM0075-009 06/01/2016

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PLUMBER	$ 38.82	20.12

PLUM0111-007 05/28/2018

MARINETTE COUNTY (Niagara only)

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 33.33	24.48

PLUM0118-002 06/01/2022

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
Plumber and Steamfitter	$ 47.50	25.92

PLUM0400-003 05/29/2022

ADAMS,BROWN, CALUMET, DODGE (except Watertown), DOOR, FOND DU LAC, GREEN LAKE,KEWAUNEE, MANITOWOC, MARINETTE (except Niagara), MENOMINEE, OCONTO, OUTAGAMIE, SHAWANO, SHEBOYGAN, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 46.37	20.96

PLUM0434-002 05/30/2021

BARON, BUFFALO, CHIPPEWA, CLARK, CRAWFORD, DUNN, EAU CLAIRE, FLORENCE, FOREST, GRANT, JACKSON, JUNEAU, LA CROSSE, LANGLADE, LINCOLN, MARATHON, MONROE, ONEIDA, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RUSK, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILAS, AND WOOD COUNTIES

	Rates	Fringes
PIPEFITTER	$ 44.65	20.72

PLUM0601-003 06/01/2022

DODGE (Watertown), GREEN, JEFFERSON, LAFAYETTE, MILWAUKEE, OZAUKEE, ROCK, WASHINGTON AND WAUKESHA COUNTIES

	Rates	Fringes
PIPEFITTER	$ 50.00	28.93

PLUM0601-009 06/01/2022

COLUMBIA, DANE, IOWA, MARQUETTE, RICHLAND AND SAUK COUNTIES

	Rates	Fringes
PIPEFITTER	$ 52.06	26.86

TEAM0039-002 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axle Trucks	$ 32.57	23.81
3 or more axles; Euclids or Dumptor, Articulated Truck, Mechanic	$ 32.72	23.81

SUWI2011-001 11/16/2011

	Rates	Fringes
WELL DRILLER	$ 16.52	

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

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

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

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

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

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

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

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

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

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

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

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

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

===

END OF GENERAL DECISIO"

Wisconsin Department of Transportation

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

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

September 1, 2022

NOTICE TO ALL CONTRACTORS:

Proposal #06: **5310-02-75, WISC 2022 380**
Spring Green - Madison
Pleasant View Road Intersection
USH 14
Dane County

5992-11-01, WISC 2022 382
C Middleton, Pleasant View Road
Timber Wolf Trail to USH 14
Local Street
Dane County

5992-11-02
C of Middleton, Pleasant View Road
Timber Wolf Trail to USH 14
Local Street
Dane County

Letting of September 13, 2022

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
37	Removing Traffic Signals Pleasant View Road & USH 14, Item 204.9060.S.06
68	Temporary Traffic Signals for Intersections (Pleasant View Road and Blackhawk Road), Item 661.0200.01.
126	Transport and Install State Furnished Cameras (USH 14 & Pleasant View Road), Item SPV.0060.67.
127	Transport and Install SF Radar Detection System (USH 14 & Pleasant View Road), Item SPV.0060.68.
128	Transport and Install State Furnished Blank Out Sign (USH 14 & Pleasant View Rd) Item SPV.0060.69.

Added Special Provisions	
Article No.	Description
162	Excavation Rock
163	Railing Steel Pedestrian Type C3
164	Roadway Embankment, Item SPV.0035.08

Deleted Special Provisions	
Article No.	Description
40	Embankment

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
655.0610	Electrical Wire Lighting 12 AWG	LF	18,394	1,200	19,594

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
655.0230	Cable Traffic Signal 5-14 AWG	LF	0	1,000	1,000
658.5069	Signal Mounting Hardware (USH 14 & Pleasant View Road)	LS	0	1	1
SPV.0035.08	Roadway Embankment	CY	0	11,400	11,400

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
271	Temporary Traffic Signal Plan - Stage 2 (Removed construction notes 4 and 5)
272	Temporary Traffic Signal Plan - Stage 3 (Removed construction notes 4 and 5)
273	Temporary Traffic Signal Plan - Stage 4 (Removed construction notes 4, 5 and 6)
480	Miscellaneous Quantities (Revised Cable Traffic Signal table, added two tables)
489	Miscellaneous Quantities (Added Roadway Embankment table)
490	Miscellaneous Quantities (Revised for Swallowtail Pond Excavation to all be wasted)
988	Cross Sections - Pleasant View Road (NB) - (Add hatching for Excavation Rock Parcel 20)
989	Cross Sections - Pleasant View Road (NB) - (Add hatching for Excavation Rock Parcel 20)
990	Cross Sections - Pleasant View Road (NB) - (Add hatching for Excavation Rock Parcel 20)
991	Cross Sections - Pleasant View Road (NB) - (Add hatching for Excavation Rock Parcel 20)
992	Cross Sections - Pleasant View Road (NB) - (Add hatching for Excavation Rock Parcel 20)
993	Cross Sections - Pleasant View Road (NB) - (Add hatching for Excavation Rock Parcel 20)
995	Cross Sections - Pleasant View Road (NB) - (Add hatching for Excavation Rock Parcel 20)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

5310-02-75/5992-11-01/5992-11-02

September 1, 2022

Special Provisions

37. Removing Traffic Signals Pleasant View Road & USH 14, Item 204.9060.S.06.

Replace paragraph under section titled **C Construction** *with the following:*

Arrange for the de-energizing of the traffic signal assembly with the Region Electrical Field Unit by contacting the department's on-call electrician at (608) 246-5446 at least five working days prior to the removal of each traffic signal unit. Complete the removal work as soon as possible following shut down of this equipment.

40. DELETED

68. Temporary Traffic Signals for Intersections (Pleasant View Road and Blackhawk Road), Item 661.0200.01.

Remove paragraph (6).

126. Transport and Install State Furnished Cameras (USH 14 & Pleasant View Road), Item SPV.0060.67.

Replace paragraph one under section titled **C Construction** *with the following:*

Install cameras and mounting hardware at locations as shown on the plans. Adjust camera position/orientation as needed to provide detection at all zones shown on the plans. Multiple installations/adjustments may be required and shall be considered incidental to this bid item.

Remove the last paragraph under section titled **C Construction**.

Replace the last paragraph under section titled **E Payment** *with the following:*

Payment is full compensation for transporting and installing the state furnished cameras and mounting hardware; and to aim each unit to provide a fully operational video detection system.

127. Transport and Install SF Radar Detection System (USH 14 & Pleasant View Road), Item SPV.0060.68.

Replace paragraph two under section titled **C Construction** *with the following:*

Install the power and communication cable to run continuously (without splices) from the traffic signal cabinet to the pole handhole plus an extra 10-feet in the pole handhole. Install the detector unit cable whip from the detector unit to the pole handhole. Splice the detector unit cable whip to the power and communication cable in the pole handhole using the provided junction box.

Remove the last paragraph under section titled **C Construction**.

Replace the last paragraph under section titled **E Payment** *with the following:*

Payment is full compensation for transporting and installing the state furnished radar detection system, cable, and mounting hardware and radar units.

128. Transport and Install State Furnished Blank Out Sign (USH 14 & Pleasant View Rd), Item SPV.0060.69.

Replace paragraph two under section titled **C Construction** *with the following:*

Install the power cable to run continuously (without splices) from the traffic signal cabinet to the pole handhole plus an extra 10-feet in the pole handhole.

Remove the last paragraph under section titled ***C Construction****.*

162. Excavation Rock.

Supplement standard spec 205.3.1.(1). with the following:

Deliver material generated from excavation rock from within parcel 20 as generally shown on the plans to a location within parcel 22 as designated by the engineer. Excavated rock shall become the property of the parcel 22 property owner.

163. Railing Steel Pedestrian Type C3.

Supplement standard spec 513.2.1(4) with the following:

Anchor bolts conforming to ASTM A193 Type 316 may be substituted for anchor bolts conforming to the standard spec requirement of ASTM F593 Type 316.

164. Roadway Embankment, Item SPV.0035.08.

Conform to standard spec 207 modified by this special provision.

A Description
This special provision describes providing special compaction for embankment placed between Station 115+50 and Station 118+25.

Replace subsection 207.1(1) of the standard specifications with the following:

This section describes placing in embankments material obtained under the bid items in the roadway and drainage excavation or excavation for structure sections and modified under these special provisions.

B Materials
Conform to subsection 207.2 of the standard specifications.

C Construction
Conform to subsection 207.3 of the standard specifications.

Replace standard spec 207.3.6.3(2) with the following:

(2) Compact the full depth of the embankment to at least 98 percent of maximum dry density.

Delete standard spec 207.3.6.3(3).

Add the following to standard spec 207.3.6.3:

(7) Perform compaction testing on the embankment. 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 embankment, 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.

D Measurement

Replace subsection 207.1 of the standard specifications with the following:

The department will measure Roadway Embankment by the cubic yard acceptably completed in its final location using the method of average end areas, with no correction for curvature or settlement, except as follows:

a) The engineer and contractor mutually agree to an alternative volume calculation method;
b) The method of average end areas is not feasible.

If it is not possible to compute volumes of the various classes of roadway and drainage embankment by the method of average end areas due to erratic location of isolated deposits, the department may compute the volumes by alternative methods involving three-dimensional measurements.

The department will not measure embankment material beyond the limits of the required slopes as shown on the plans.

E Payment

Replace subsection 207.5 of the standard specifications with the following:

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.08	Roadway Embankment	CY

Payment is full compensation for forming, compacting, shaping, sloping, trimming, finishing, maintaining the embankments, and compaction testing.

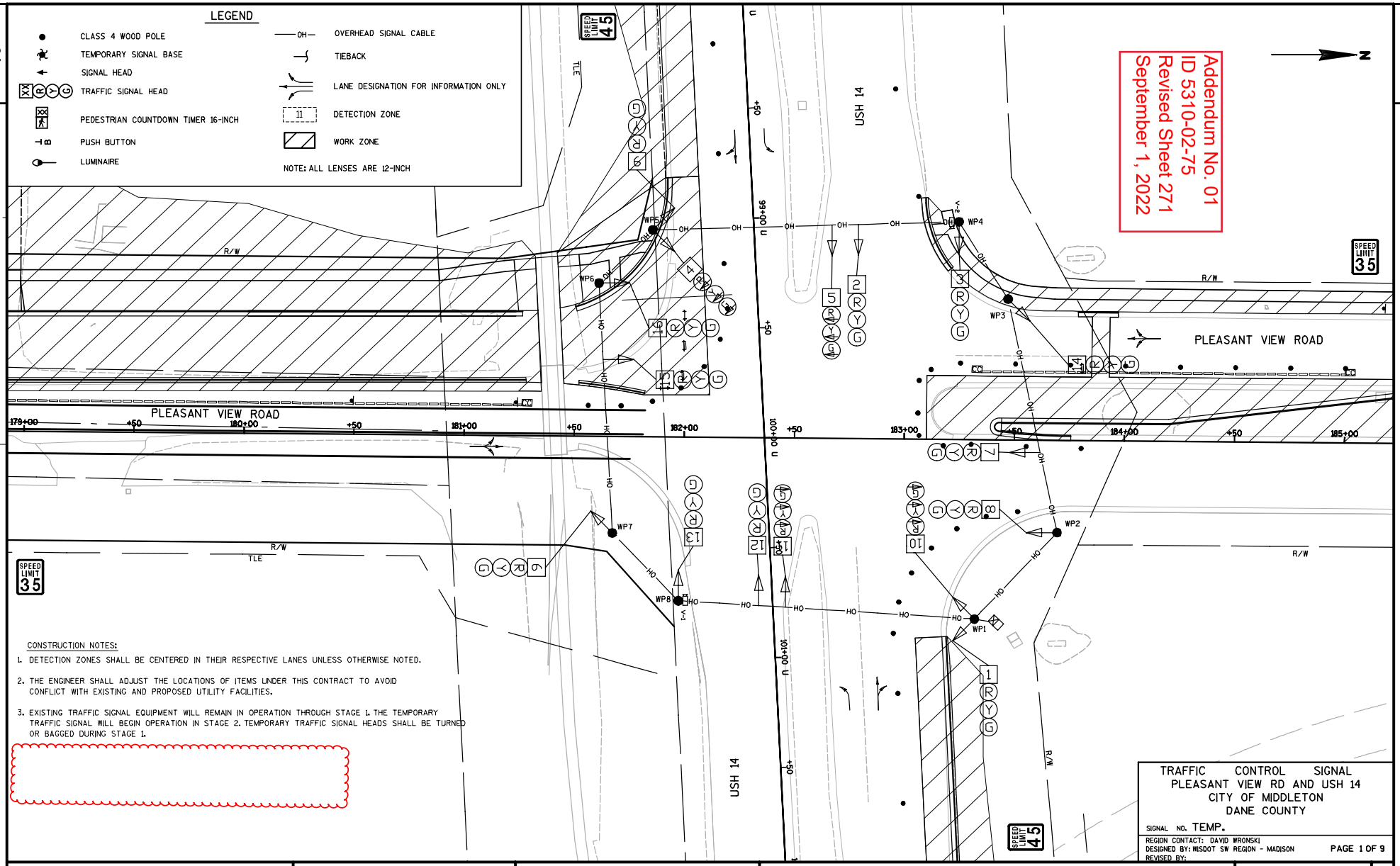
Schedule of Items

Attached, dated September 1, 2022, are the revised Schedule of Items Pages 20 and 32.

Plan Sheets

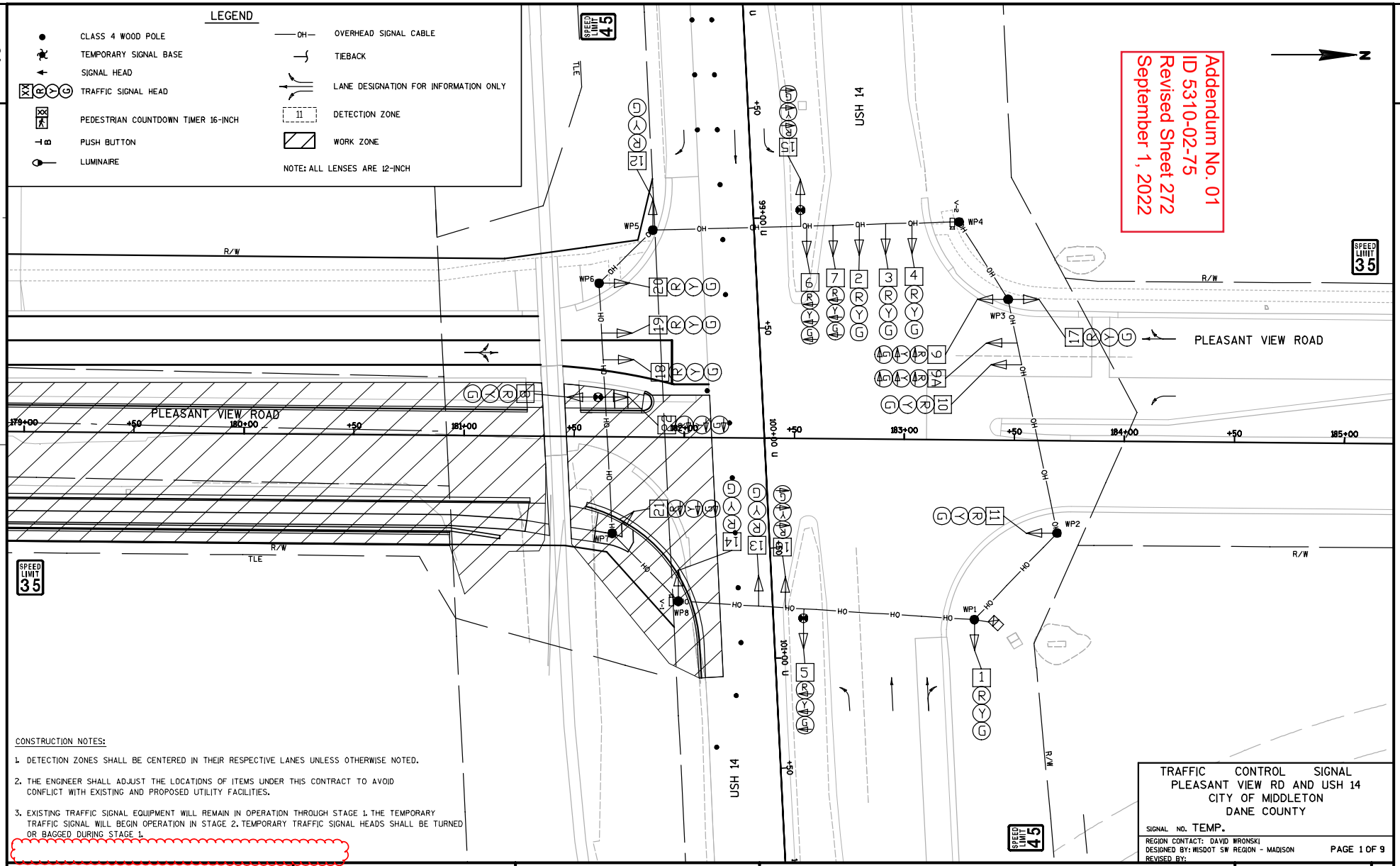
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 271, 272, 273, 480, 489, 490, 988, 989, 990, 991, 992, 993, and 995.

END OF ADDENDUM



PROJECT NO: 5310-02-75	HWY: USH 14	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 271	E

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\024030_sp.dgn PLOT DATE : 8/29/2022 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. DETECTION ZONES SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
2. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
3. EXISTING TRAFFIC SIGNAL EQUIPMENT WILL REMAIN IN OPERATION THROUGH STAGE 1. THE TEMPORARY TRAFFIC SIGNAL WILL BEGIN OPERATION IN STAGE 2. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE TURNED OR BAGGED DURING STAGE 1.

TRAFFIC CONTROL SIGNAL
PLEASANT VIEW RD AND USH 14
CITY OF MIDDLETON
DANE COUNTY

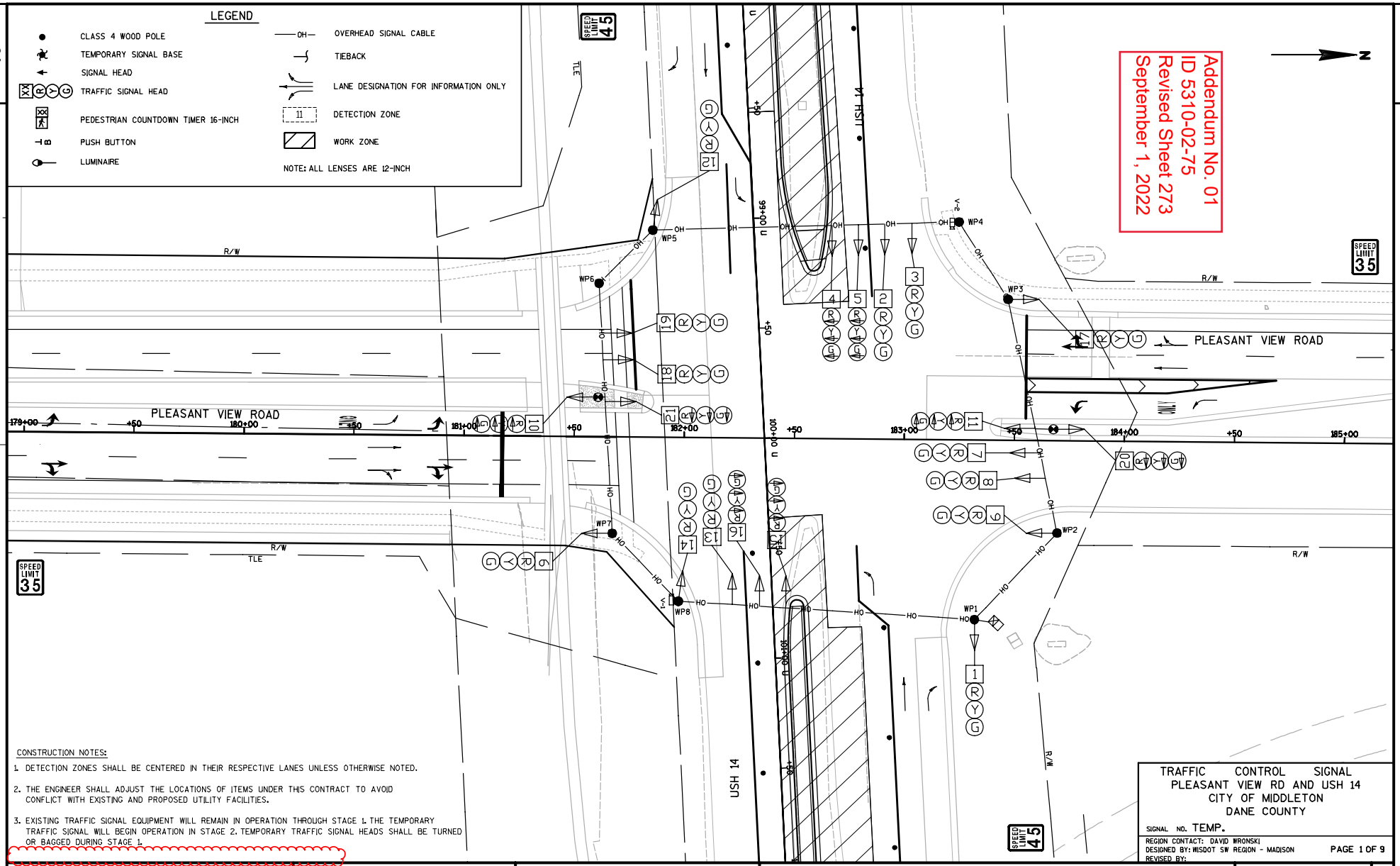
SIGNAL NO. TEMP.

REGION CONTACT: DAVID WRONSKI
DESIGNED BY: WISDOT SW REGION - MADISON
REVISED BY:

PAGE 1 OF 9

PROJECT NO: 5310-02-75	HWY: USH 14	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 272	E

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\024031_sp.dgn PLOT DATE : 8/29/2022 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. DETECTION ZONES SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
2. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
3. EXISTING TRAFFIC SIGNAL EQUIPMENT WILL REMAIN IN OPERATION THROUGH STAGE 1. THE TEMPORARY TRAFFIC SIGNAL WILL BEGIN OPERATION IN STAGE 2. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE TURNED OR BAGGED DURING STAGE 1.

TRAFFIC CONTROL SIGNAL
PLEASANT VIEW RD AND USH 14
CITY OF MIDDLETON
DANE COUNTY

SIGNAL NO. TEMP.

REGION CONTACT: DAVID WRONSKI
DESIGNED BY: WISDOT SW REGION - MADISON
REVISED BY:

PAGE 1 OF 9

PROJECT NO: 5310-02-75	HWY: USH 14	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 273	E

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\024032_sp.dgn PLOT DATE : 8/29/2022 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

CABLE TRAFFIC SIGNAL 14 AWG SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0250 CABLE TRAFFIC SIGNAL 9-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF
0010	CB1	SB1	---	111	---	---
	CB1	SB2	---	---	200	---
	CB1	SB3	---	337	---	---
	CB1	SB4	---	---	345	---
	CB1	SB5	---	---	418	---
	CB1	SB6	---	---	---	565
	CB1	SB7	---	506	---	---
	CB1	SB8	---	---	422	---
	CB1	SB9	---	---	---	415
	CB1	SB10	---	286	---	---
	CB1	SB11	---	---	213	---
	WITHIN POLE		1000	---	---	---
	TOTALS		1000	1240	1598	980

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

CATEGORY	LOCATION	661.0200.02 USH 14 & PLEASANT VIEW ROAD LS
0010	USH 14 & PLEASANT VIEW ROAD	1

SIGNAL MOUNTING HARDWARE

CATEGORY	LOCATION	658.5069 USH 14 & PLEASANT VIEW ROAD LS
0010	USH 14 & PLEASANT VIEW ROAD	1

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

CATEGORY	LOCATION FROM	LOCATION TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
0010	CB1	PB1	12
	PB1	PB2	13
	PB5	SB1	11
	PB2	PB3	76
	PB3	SB2	10
	PB3	PB4	56
	PB4	SB3	10
	PB4	PB5	58
	PB5	SB4	9
	PB5	PB6	59
	PB6	SB5	10
	PB6	PB7	63
	PB7	SB6	14
	PB7	PB8	20
	PB8	SB7	6
	PB8	PB9	74
	PB9	SB8	10
	PB9	PB10	70
	PB10	SB9	13
	PB10	PB11	33
	PB11	SB10	17
	PB11	PB12	74
	PB12	PB13	44
	PB13	SB11	7
	PB13	PB14	43
	PB14	CB1	12
		TOTAL	824

ELECTRICAL WIRE LIGHTING 12 AWG

CATEGORY	LOCATION	* 655.0610 ELECTRICAL WIRING LIGHTING 12 AWG LF
0010	WITHIN POLE	1200

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CABLE TYPE UF 2-12 AWG GROUNDED

CATEGORY	LOCATION FROM	LOCATION TO	LOCATION	* 655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF
0010	CB1	SB1	NE QUADRANT	131
	CB1	SB3	SE QUADRANT	297
	CB1	SB4	SE QUADRANT	365
	CB1	SB6	SW QUADRANT	525
	CB1	SB7	SW QUADRANT	526
	CB1	SB9	NW QUADRANT	365
	CB1	SB10	NW QUADRANT	306
	CB1	SB11	NE QUADRANT	163
		TOTAL		2678

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC SIGNAL POLES & MAST ARMS SUMMARY

CATEGORY	LOCATION	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0315 POLES TYPE 4 EACH	657.0352 POLES TYPE 10-SPECIA EACH	657.0360 POLES TYPE 13 EACH	657.0541 MONOTUBE ARMS 40-FT-SPECIAL EACH	657.0550 MONOTUBE ARMS 50-FT EACH
0010	SB1	---	1	---	---	---	---
	SB2	1	---	---	---	---	---
	SB3	---	---	1	---	1	---
	SB4	---	1	---	---	---	---
	SB5	1	---	---	---	---	---
	SB6	---	---	1	---	1	---
	SB7	---	1	---	---	---	---
	SB8	1	---	---	---	---	---
	SB9	---	---	---	1	---	1
	SB10	---	1	---	---	---	---
	SB11	---	---	---	1	---	1
	CB1	---	---	---	---	---	---
	TOTALS	3	4	2	2	2	2

TRAFFIC SIGNALS SUMMARY

CATEGORY		658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	657.0709 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 12-FT EACH	657.0812 LUMINAIRE ARMS STEEL 12-FT EACH	657.0820 LUMINAIRE ARMS STEEL TYPE 10 POLE CLAMP 15-FT EACH	657.0825 LUMINAIRE ARMS STEEL TYPE 13 POLE CLAMP 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.67 TRANSPORT STATE FURNISHED CAMERAS (USH 14 & PLEASANT VIEW ROAD) EACH	SPV.0060.68 TRANSPORT SF RADAR DETECTION SYSTEM (USH 14 & PLEASANT VIEW ROAD) EACH	SPV.0060.69 TRANSPORT STATE FURNISHED BLANK OUT SIGN (USH 14 & PLEASANT VIEW RD) EACH
0010	SB1	1	1	---	---	1	---	---	---	1	---	---	---
	SB2	---	2	---	---	---	---	---	---	---	---	---	---
	SB3	2	---	---	---	---	1	1	---	1	1	1	1
	SB4	1	1	1	1	1	---	---	---	1	---	---	---
	SB5	---	2	---	1	---	---	---	---	---	---	---	---
	SB6	2	---	1	1	---	1	---	---	1	---	---	---
	SB7	1	---	1	1	1	---	---	---	1	---	---	1
	SB8	---	2	---	1	---	---	---	---	---	---	---	---
	SB9	2	1	1	1	---	1	---	1	1	1	1	---
	SB10	1	1	---	---	1	---	---	---	1	---	---	---
	SB11	2	1	---	---	---	1	---	---	1	---	---	---
	CB1	---	---	---	---	---	---	---	---	---	---	---	---
	TOTALS	12	11	4	6	4	4	1	1	8	2	2	2

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ROADWAY EMBANKMENT

CATEGORY	STATION - STATION	LOCATION	SPV.0035.08 ROADWAY EMBANKMENT CY
0010	115+50 - 118+25	EMBANKMENT	11,400

EARTHWORK SUMMARY

						205.0100					205.0200						* 312.0110	* 624.0100
						EXCAVATION COMMON (1)		STRUCTURE	AVAILABLE	ROCK	EXPANDED EBS	EXPANDED	UNEXPANDED	EXPANDED	MASS ORDINATE	WASTE	SELECT CRUSHED	WATER (FOR DUST
						CUT (2)	EBS EXCAVATION (3)	EXCAVATION (10)	MATERIAL (4)	EXCAVATION (11)	BACKFILL (5)	ROCK	FILL	FILL (6)	+/- (7)	(8)	MATERIAL (9)	CONTROL)
							5% OF CUT				FACTOR 1.25	FACTOR 1.10		FACTOR 1.25				
CATEGORY	DIVISION	LOCATION	STATION	- STATION	LOCATION	CY	CY	CY	CY	CY	CY	CY	CY	CY		CY	TON	MGAL
0010	STAGE 1	TEMPORARY WIDENING	107+00 NB	- 128+50 NB	LT/RT	2,405	120	0	2,405	0	150	0	3,546	4,433	-2,027	-1,877	263	6
			SUBTOTALS (STAGE 1)			2,405	120	0	2,405	0	150	0	3,546	4,433	-2,027	-1,877	263	6
	STAGE 2	PLEASANT VIEW ROAD	129+16 NB	- 140+13 NB	RT	2,584	129	0	2,584	0	162	0	2,231	2,788	-204	-42	283	6
		PLEASANT VIEW ROAD	126+00 SB	- 128+00 SB	LT	869	43	0	869	0	54	0	7	9	859	914	95	2
		TEMPORARY WIDENING	10+00 B	- 14+50 B	RT	505	25	0	505	0	32	0	0	0	505	536	55	2
		BLACKHAWK ROAD	10+71 B	- 15+11 B	RT	1,466	73	0	1,466	0	92	0	83	104	1,362	1,453	160	4
		GREENWAY BLVD	50+00 G	- 53+38 G	RT	516	26	0	516	0	32	0	20	25	491	523	56	2
		G3 ALI	10+00 G3	- 11+00 G3	LT/RT	252	13	0	252	0	16	0	28	35	217	233	28	1
			SUBTOTALS (STAGE 2)			6,192	310	0	6,192	0	387	0	2,369	2,961	3,230	3,617	677	17
	STAGE 3	PLEASANT VIEW ROAD	126+00 NB	- 127+95 NB	RT	1,030	52	0	1,030	0	64	0	76	95	935	1,000	113	3
		BLACKHAWK ROAD	16+62 B	- 21+16 B	LT/RT	841	42	0	841	0	53	0	1,676	2,095	-1,253	-1,201	92	2
		B3 ALI	10+00 B3	- 11+50 B3	LT/RT	119	6	0	119	0	7	0	540	675	-556	-548	13	1
			SUBTOTALS (STAGE 3)			1,991	100	0	1,991	0	124	0	2,292	2,865	-874	-749	218	6
	STAGES 2-4	PLEASANT VIEW ROAD	108+32 NB	- 126+00 NB	LT/RT	14,201	710	0	14,201	0	888	0	16,259	20,324	-6,123	-5,235	1,553	30
	STAGES 3-5	BLACKHAWK ROAD ROUNDABOUT	10+00 B1	- 12+98 B1	LT/RT	1,410	71	0	1,410	0	88	0	487	609	801	889	154	3
			SUBTOTALS (STAGES 2-5)			15,611	781	0	15,611	0	976	0	16,746	20,933	-5,322	-4,346	1,707	33
			SUBTOTALS (0010)			26,200	1,310	0	26,200	0	1,637	0	24,953	31,192	-4,992	-3,355	2,866	62
			ITEM TOTALS (0010)				27,510											

CON'T NEXT PAGE

1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.
2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.
4) AVAILABLE MATERIAL = CUT + STRUCTURE EXCAVATION.
5) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.25.
6) EXPANDED FILL = (UNEXPANDED FILL)* EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.
7) MASS ORDINATE: MASS ORDINATE = CUT - EXPANDED FILL + STRUCTURE EXCAVATION.
PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
8) WASTE = MASS ORDINATE + EXPANDED EBS BACKFILL
9) SELECT CRUSHED MATERIAL IS USED FOR BACKFILL OF EBS.
10) STRUCTURE EXCAVATION FOR INFORMATION ONLY; STRUCTURE EXCAVATION DOES NOT INCLUDE ROCK EXCAVATION WITHIN THE STRUCTURE EXCAVATION LIMITS.
11) ROCK EXCAVATION NOT USED FOR FILL MATERIAL.
12) WEATHERED TO INCREASINGLY MORE COMPETENT BEDROCK WAS ENCOUNTERED IN MANY BORINGS AND THE DEPTH AND CONSISTENCY OF THESE MATERIALS SHOULD BE EXPECTED TO VARY ACROSS THE SITE.
*ADDITIONAL QUANTITIES LISTED ELSEWHERE

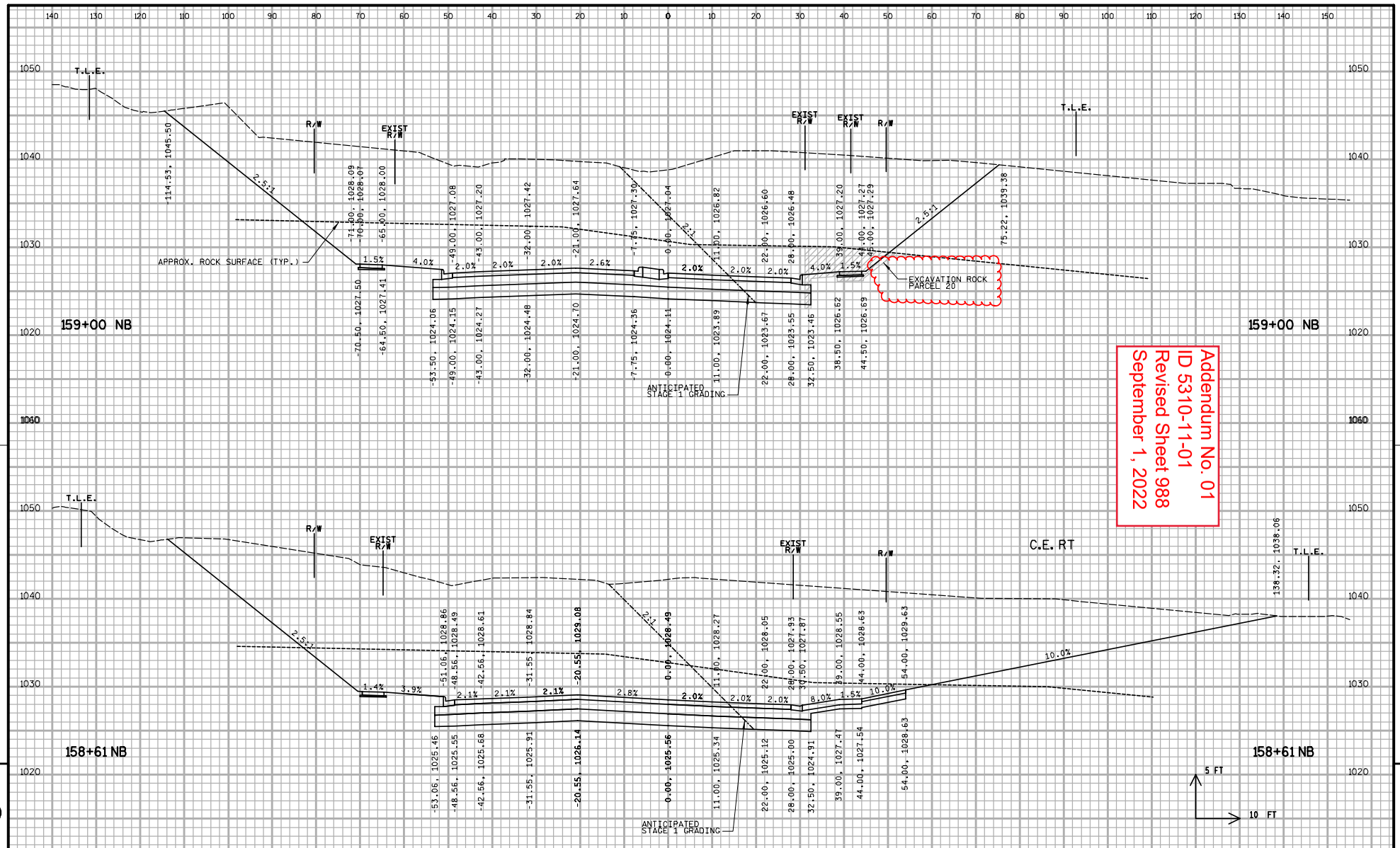
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EARTHWORK SUMMARY

CATEGORY	DIVISION	LOCATION	STATION		STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2) CY	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3) 5% OF CUT CY	STRUCTURE EXCAVATION (10) CY	AVAILABLE MATERIAL (4) CY	205.0200 ROCK EXCAVATION (11) CY	EXPANDED EBS BACKFILL (5) FACTOR 1.25 CY	EXPANDED ROCK FACTOR 1.10 CY	UNEXPANDED FILL CY	EXPANDED FILL (6) FACTOR 1.25 CY	MASS ORDINATE +/- (7)	WASTE (8)(13) CY	* 312.0110 SELECT CRUSHED MATERIAL (9) TON	* 624.0100 WATER (FOR DUST CONTROL) MGAL
0060	STAGE 1	TEMPORARY WIDENING	128+50 NB	-	178+00 NB	LT/RT	8,386	419	1,009	9,395	0	524	0	866	1,082	8,313	8,837	917	18
		POND D					2,255	0	0	2,255	0	0	0	38	48	2,208	2,208	0	5
		POND E					6,495	0	0	6,495	0	0	0	107	133	6,361	6,361	0	13
		POND F					5,920	0	0	5,920	0	0	0	98	122	5,798	5,798	0	12
			SUBTOTALS (STAGE 1)				23,056	419	1,009	24,065	0	524	0	1,108	1,385	22,680	23,205	917	48
	STAGE 2	PLEASANT VIEW ROAD	169+50 SB	-	174+50 SB	LT	6,692	335	0	6,692	2,519	418	2,771	69	87	6,605	7,024	732	15
		TEMPORARY SIDEWALK	10+00 B	-	14+50 B	LT	95	5	0	95	0	6	0	21	26	69	75	10	1
		BLACKHAWK ROAD	10+71 B	-	15+11 B	LT	1,143	57	0	1,143	0	71	0	45	56	1,087	1,158	125	3
		B6 ALI	10+00 B6	-	11+50 B6	LT/RT	518	26	57	575	0	32	0	13	16	559	592	57	2
		GREENWAY BLVD	50+00 G	-	53+38 G	LT	1,050	53	0	1,050	0	66	0	159	198	852	918	115	3
		NORTHWESTERN STONE DRIVEWAY	10+25 NS	-	12+49 NS	LT/RT	4,412	221	0	4,412	0	276	0	46	57	4,355	4,631	483	10
			SUBTOTALS (STAGE 2)				13,910	695	57	13,967	2,519	869	2,771	352	440	13,527	14,397	1,521	34
	STAGE 3	QUARRY ROAD	50+00 Q	-	51+57 Q	LT/RT	795	40	0	795	0	50	0	47	58	736	786	87	2
		Q3 ALI	10+00 Q3	-	10+50 Q3	LT/RT	182	9	0	182	0	11	0	0	0	182	193	20	1
		GOLF COURSE GRADING					1,776	0	0	1,776	0	0	0	10,030	12,537	-10,761	-10,761	0	4
			SUBTOTALS (STAGE 3)				2,753	49	0	2,753	0	61	0	10,077	12,596	-9,843	-9,782	107	7
	STAGE 4	PLEASANT VIEW ROAD	131+00 NB	-	136+00 NB	LT	1,932	97	0	1,932	0	121	0	386	483	1,450	1,570	211	5
		PLEASANT VIEW ROAD	129+24 SB	-	131+00 SB	LT	558	28	0	558	0	35	0	197	246	312	347	61	2
		PLEASANT VIEW ROAD	136+00 SB		143+50 SB	LT	4,110	205	0	4,110	0	257	0	308	385	3,725	3,981	449	9
		BP2 ALI	50+00 BP2	-	55+00 BP2	LT/RT	268	13	40	308	0	17	0	588	734	-426	-409	29	1
			SUBTOTALS (STAGE 4)				6,868	343	40	6,908	0	429	0	1,478	1,848	5,060	5,489	751	17
	STAGES 2-4	PLEASANT VIEW ROAD	141+36 NB	-	178+00 NB	LT/RT	69,625	3,481	6,888	76,513	36,353	4,352	39,988	13,398	16,747	59,766	64,117	7,615	147
	STAGES 2-4	QUARRY ROAD ROUNDABOUT	10+00 Q1	-	12+98 Q1	LT/RT	2,718	136	0	2,718	0	170	0	290	362	2,355	2,525	297	6
	STAGES 2-4	BP ALI	36+65 BP	-	42+34 BP	LT/RT	396	20	0	396	0	25	0	273	341	55	79	43	1
	STAGES 2-5	GREENWAY BLVD ROUNDABOUT	10+00 G1	-	12+98 G1	LT/RT	1,918	96	0	1,918	0	120	0	368	460	1,458	1,578	210	5
			SUBTOTALS (STAGES 2-5)				74,657	3,733	6,888	81,545	36,353	4,666	39,988	14,328	17,910	63,634	68,300	8,166	159
			SUBTOTALS (0060)				121,244	5,240	7,994	129,238	38,872	6,550	42,759	27,343	34,179	95,059	101,609	11,462	265
			ITEM TOTALS (0060)					126,484											
0160	STAGES 2-4	SWALLOWTAIL POND(14)					29,450	0	0	29,450	0	0	0	4,810	6,013	29,450	29,450	0	59
			SUBTOTALS (0160)					29,450											
			GRAND TOTALS					183,453	7,994	184,897	38,872	8,188	42,759	57,120	71,399	119,510	127,698	14,329	386

1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.
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12) WEATHERED TO INCREASINGLY MORE COMPETENT BEDROCK WAS ENCOUNTERED IN MANY BORINGS AND THE DEPTH AND CONSISTENCY OF THESE MATERIALS SHOULD BE EXPECTED TO VARY ACROSS THE SITE.
13) HAUL APPROXIMATELY 2,200 CY OF WASTE TO THE PLEASANT VIEW GOLF COURSE AS SHOWN ON THE CONSTRUCTION DETAILS - GOLF COURSE GRADING CONTOURS DRAWING. SEE SPECIAL PROVISIONS PRIOR TO PLACING MATERIAL.
14) ALL EXCAVATION COMMON FROM SWALLOWTAIL POND IS ASSUMED TO BE WASTED. REQUIRED FILL TO BE HAULED FROM OTHER AREAS.
*ADDITIONAL QUANTITIES LISTED ELSEWHERE

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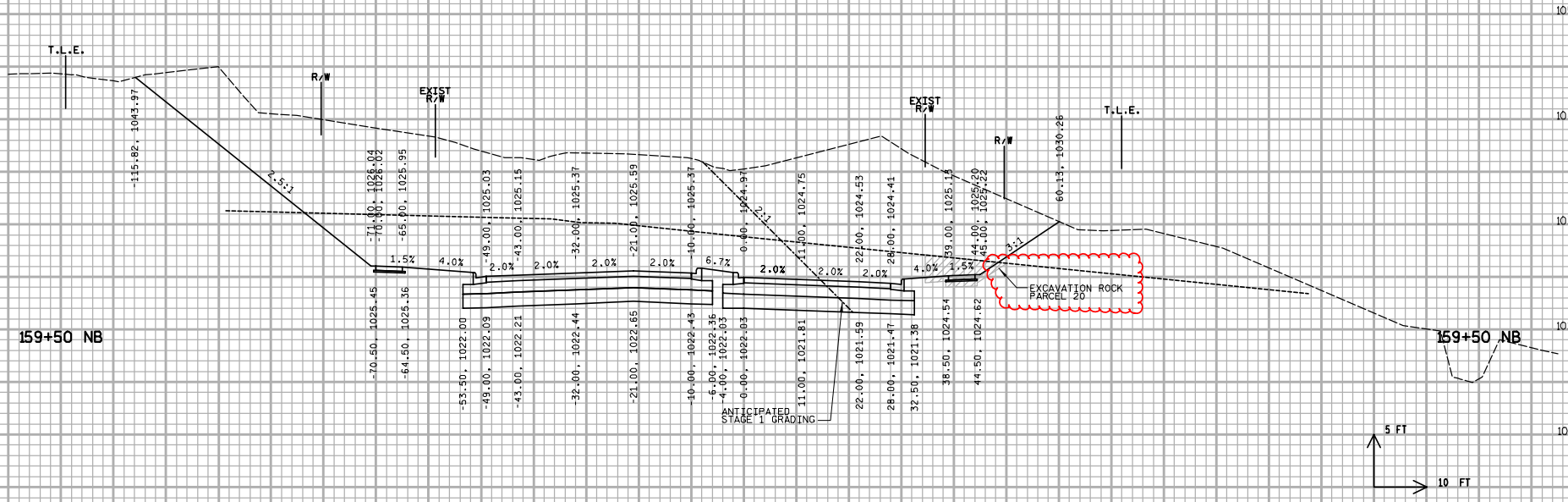


Addendum No. 01
ID 5310-11-01
Revised Sheet 988
September 1, 2022

PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	CROSS SECTIONS - PLEASANT VIEW ROAD (NB)	SHEET 988	E

FILE NAME : S:\WAD\1000--1099\1020\101\Micros\Plan\Phase 1\090201_xs.dgn PLOT DATE : 8/31/2022 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

Addendum No. 01
ID 5310-11-01
Revised Sheet 989
September 1, 2022

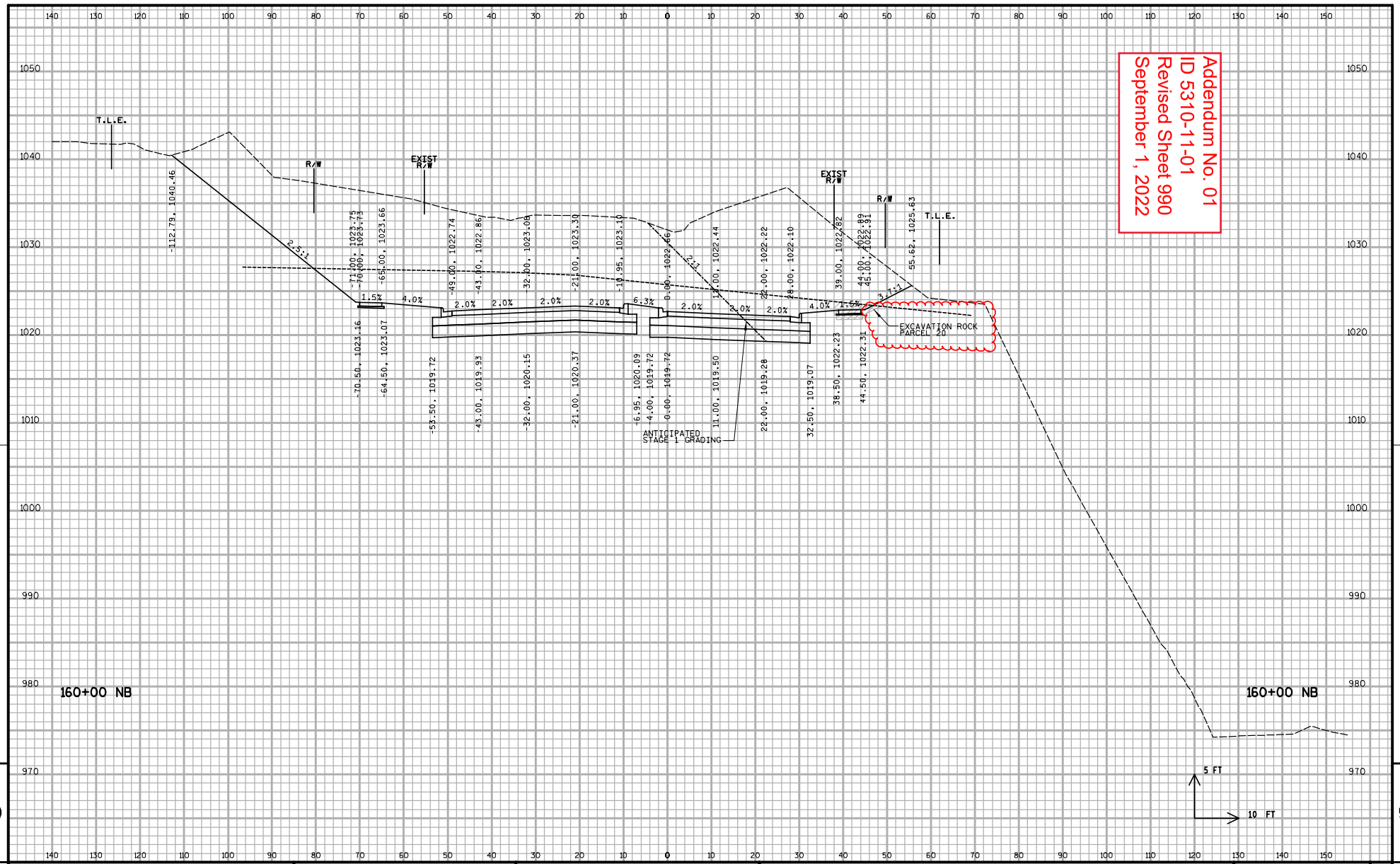


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PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	CROSS SECTIONS - PLEASANT VIEW ROAD (NB)	SHEET 989	E

FILE NAME : S:\WAD\1000--1099\1020\101\Micros\Plan\Phase 1\090201_xs.dgn PLOT DATE : 8/31/2022 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

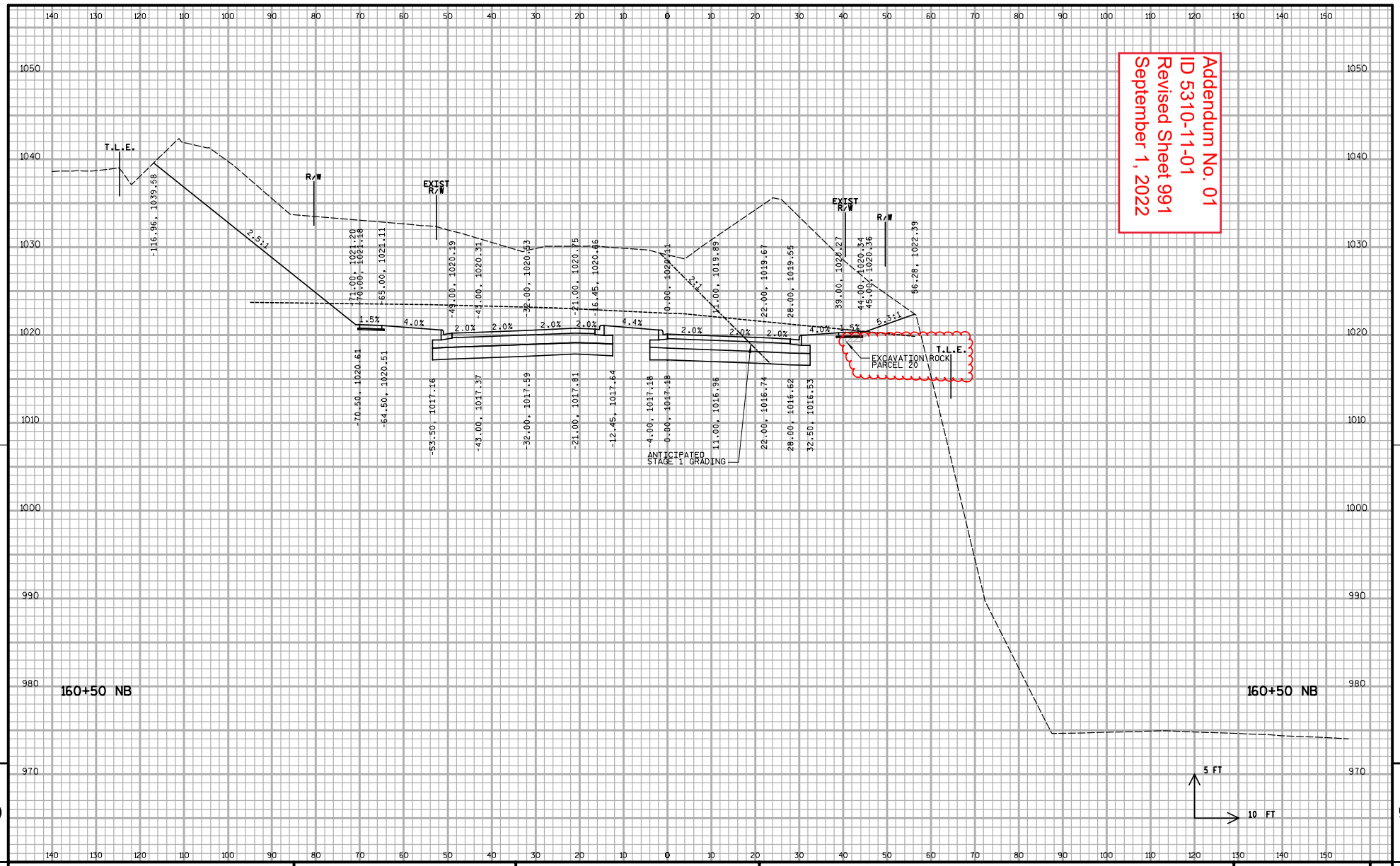


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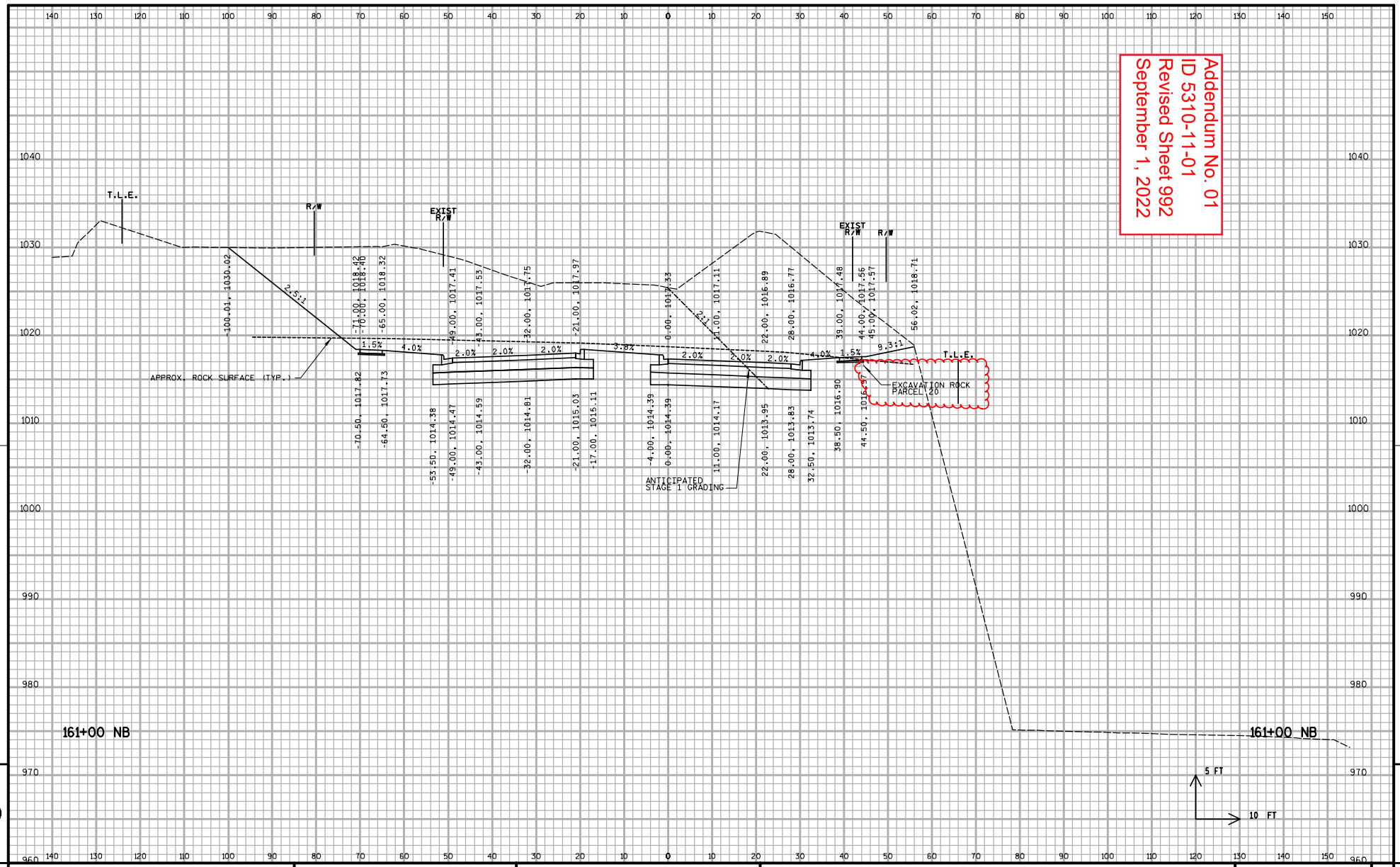
PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	CROSS SECTIONS - PLEASANT VIEW ROAD (NB)	SHEET 990	E

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PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	CROSS SECTIONS - PLEASANT VIEW ROAD (NB)	SHEET 991	E

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PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	CROSS SECTIONS - PLEASANT VIEW ROAD (NB)	SHEET 992	E

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Addendum No. 01
ID 5310-11-01
Revised Sheet 993
September 1, 2022

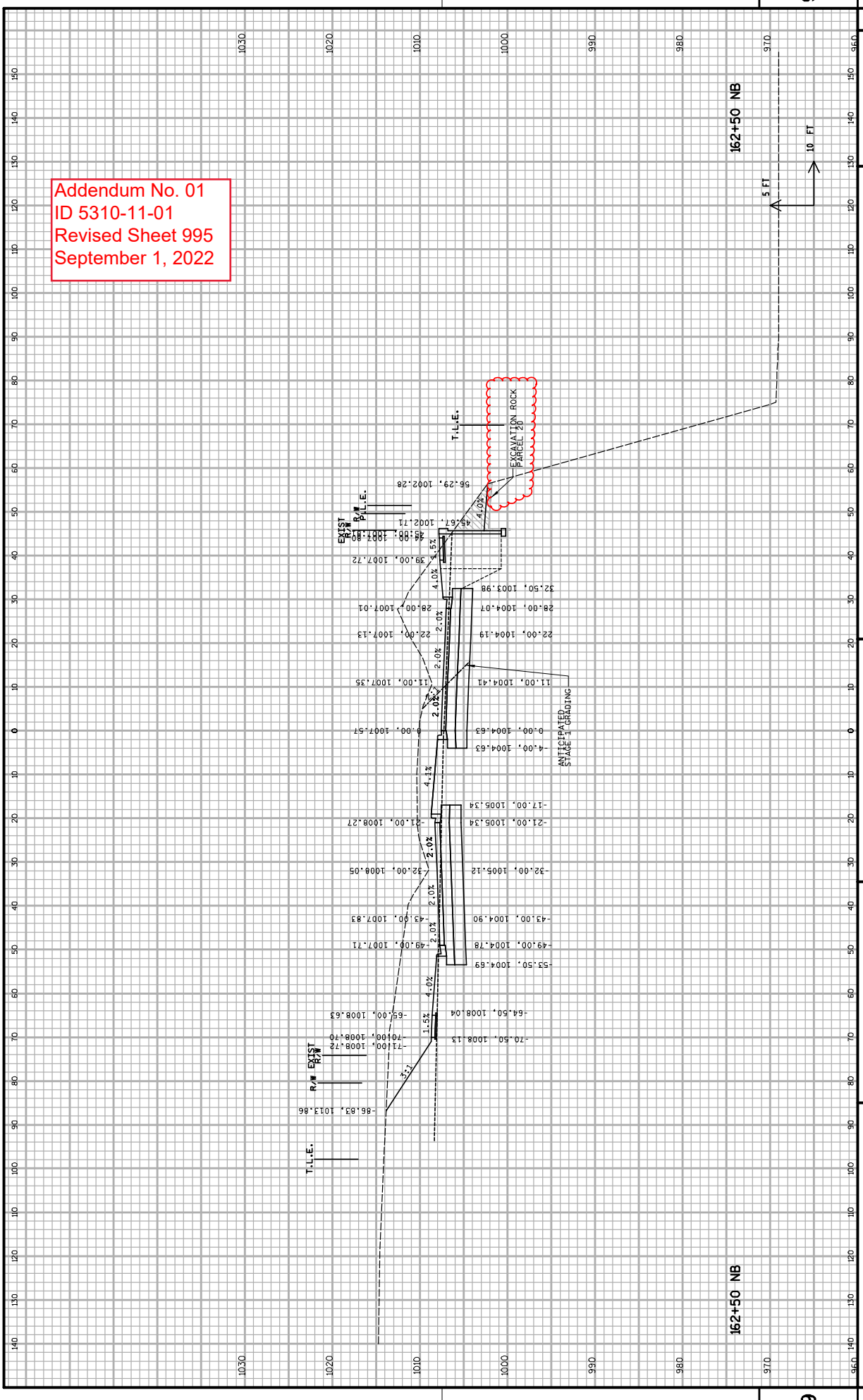


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PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	CROSS SECTIONS - PLEASANT VIEW ROAD (NB)	SHEET 993	E

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Addendum No. 01
ID 5310-11-01
Revised Sheet 995
September 1, 2022



PROJECT NO:5992-11-01 | HWY:PLEASANT VIEW ROAD | COUNTY:DANE | CROSS SECTIONS - PLEASANT VIEW ROAD (NB) | SHEET 995 | E

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\090201_xs.dgn
PLOT DATE : 8/31/2022
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0576	654.0101 Concrete Bases Type 1	3.000 EACH	_____.____	_____.____
0578	654.0102 Concrete Bases Type 2	4.000 EACH	_____.____	_____.____
0580	654.0105 Concrete Bases Type 5	30.000 EACH	_____.____	_____.____
0582	654.0113 Concrete Bases Type 13	2.000 EACH	_____.____	_____.____
0584	654.0120 Concrete Bases Type 10-Special	2.000 EACH	_____.____	_____.____
0586	654.0215 Concrete Control Cabinet Bases Type 9	1.000 EACH	_____.____	_____.____
0588	654.0230 Concrete Control Cabinet Bases Type L30	2.000 EACH	_____.____	_____.____
0590	655.0250 Cable Traffic Signal 9-14 AWG	1,240.000 LF	_____.____	_____.____
0592	655.0260 Cable Traffic Signal 12-14 AWG	1,598.000 LF	_____.____	_____.____
0594	655.0270 Cable Traffic Signal 15-14 AWG	980.000 LF	_____.____	_____.____
0596	655.0305 Cable Type UF 2-12 AWG Grounded	2,678.000 LF	_____.____	_____.____
0598	655.0515 Electrical Wire Traffic Signals 10 AWG	824.000 LF	_____.____	_____.____
0600	655.0610 Electrical Wire Lighting 12 AWG	19,594.000 LF	_____.____	_____.____
0602	655.0615 Electrical Wire Lighting 10 AWG	11,656.000 LF	_____.____	_____.____
0604	655.0625 Electrical Wire Lighting 6 AWG	29,052.000 LF	_____.____	_____.____
0606	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. Pleasant View Road & Blackhawk Road	LS	LUMP SUM	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0920	SPV.0165 Special 10. Wall Modular Block Gravity Landscape Station 11+40 NS	1,560.000 SF	_____.____	_____.____
0922	SPV.0165 Special 11. Wall Modular Block Gravity R-13-362	450.000 SF	_____.____	_____.____
0924	SPV.0165 Special 12. Wall Modular Block Gravity Landscape Station 142+40	60.000 SF	_____.____	_____.____
0926	SPV.0165 Special 13. Architectural Surface Treatment, Special	1,845.000 SF	_____.____	_____.____
0928	SPV.0170 Special 01. Pavement Cleanup	199.000 STA	_____.____	_____.____
0930	SPV.0180 Special 01. Concrete Approach Slab, 6-Inch	22.000 SY	_____.____	_____.____
0932	SPV.0180 Special 03. Access Stabilization Geocell	1,413.000 SY	_____.____	_____.____
0934	SPV.0180 Special 04. Detention Basin Plug Mix	1,450.000 SY	_____.____	_____.____
0936	655.0230 Cable Traffic Signal 5-14 AWG	1,000.000 LF	_____.____	_____.____
0938	658.5069 Signal Mounting Hardware (location) 01. (USH 14 & Pleasant View Road)	LS	LUMP SUM	_____.____
0940	SPV.0035 Special 08. Roadway Embankment	11,400.000 CY	_____.____	_____.____

Section: 0001 Total: _____.____

Total Bid: _____.____

Wisconsin Department of Transportation

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

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

September 8, 2022

NOTICE TO ALL CONTRACTORS:

Proposal #06: **5310-02-75, WISC 2022380**
Spring Green - Madison
Pleasant View Road Intersection
USH 14
Dane County

5992-11-01, WISC 2022382
C Middleton, Pleasant View Road
Timber Wolf Trail to USH 14
Local Street
Dane County

5992-11-02
C of Middleton, Pleasant View Road
Timber Wolf Trail to USH 14
Local Street
Dane County

Letting of September 13, 2022

This is Addendum No. 02, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
11	Railroad Insurance and Coordination - Wisconsin and Southern Railroad Company
23	General Provisions for Storm Sewer
39	General Requirements for Blasting Rock
87	Luminaires Single Arm LED-City of Middleton, Item SPV.0060.19; Luminaires Dual Arm LED-City of Middleton, Item SPV.0060.20.

Added Special Provisions	
Article No.	Description
165	Shortgrass Prairie Seed Mix, SPV.0085.04
166	Topsoil Planting Mix, SPV.0180.05

Deleted Special Provisions	
Article No.	Description
10	Notice to Contractor - Railroad Work During Construction and Additional Notification Requirements
131	Arch Façade Plates, Item SPV.0060.74

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
625.0100	Topsoil	SY	111,621	-1,960	109,661
627.0200	Mulching	SY	55,605	2,135	57,740
630.0500	Seed Water	MGAL	2,338.6	35.5	2,374.1
631.0300	Sod Water	MGAL	759.4	-48.1	711.3
631.1000	Sod Lawn	SY	28,250	-2,160	26,090

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0085.04	Shortgrass Prairie Seed Mix	LB	0	5.5	5.5
SPV.0180.05	Topsoil Planting Mix	SY	0	2,150	2,150

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0060.74	Arch Façade Plates	Each	1	-1	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
7	Typical Finished Sections (Added note for Topsoil Plant Mix and Shortgrass Prairie Seed Mix)
8	Typical Finished Sections (Added note for Topsoil Plant Mix and Shortgrass Prairie Seed Mix)
123	Erosion Control - Pleasant View Road (Revised median hatch to mulching)
124	Erosion Control - Pleasant View Road (Revised median hatch to mulching)
125	Erosion Control - Pleasant View Road (Revised median hatch to mulching)
126	Erosion Control - Pleasant View Road (Revised median hatch to mulching)
508	Miscellaneous Quantities (Revised Finishing table to add Topsoil Plant Mix and Shortgrass Prairie Seed Mix)
509	Miscellaneous Quantities (Revised Finishing table to add Topsoil Plant Mix and Shortgrass Prairie Seed Mix)
757	B-13-892 Cross Section, General Notes & Details (Removed Arch Façade Plate)
764	B-13-892 Arch and Protective Screening Details (Removed Arch Façade Plate)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 02

5310-02-75/5992-11-01/5992-11-02

September 8, 2022

Special Provisions

10. DELETED

11. Railroad Insurance and Coordination - Wisconsin and Southern Railroad Company.

Replace entire article language with the following:

A. Description

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

A.1 Railroad Insurance Requirements

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

Notify evidence of the required coverage, and duration to Amanda Haggerty, Office Administrator; 1890 E Johnson Street, Madison, WI 53704; Telephone (608) 620-2048; E-mail: ahaggerty@watcocompanies.com.

Also send a copy to the following: Teri Beckman, SW Madison Region Railroad Coordinator; 2101 Wright Street, Madison, WI 53704; Telephone (608) 733-1923; E-mail: teri.beckman@dot.wi.gov

Include the following information on the insurance document:

- Project ID: 5310-02-75 USH 14 & 5992-11-01 Pleasant View Road
- Project Location: City of Middleton, Wisconsin
- Route Name: USH 14 & Pleasant View Road, Dane County
- Work Performed: Replace surface and signals on HWY 14 & Pleasant View Road and replace switches on Pleasant View Road railroad crossing

#	Route Name	City/County	Crossing ID	RR Subdivision	RR Milepost
1	Pleasant View Rd	Middleton, Dane Co.	391753H	Prairie	146.66
2	USH 14	Middleton, Dane Co.	391751U	Prairie	146.60

A.2 Train Operation

Approximately 1 through freight trains operate daily at up to 5 mph to 25 mph. Approximately 10 switching trains per day.

A.3 Names and Addresses of Railroad Representatives for Consultation and Coordination Construction Contact

Todd Mulrooney, Superintendent of Engineering, Wisconsin and Southern Railroad Co.; 1890 East Johnson Street, Madison, WI 53704; Telephone (608) 620-2045; E-mail tmulrooney@watco.com for consultation on railroad requirements during construction.

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

Flagging Contact

See Construction Contact. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact the Construction Contact at least five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

WSOR will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions, and will be accomplished without cost to the contractor. Signals, surface and switch will be replaced and upgraded on HWY 14 and Pleasant View Road.

A.5 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

23. General Provisions for Storm Sewer.

Replace entire article language with the following:

Construct all round and elliptical shape storm sewers according to the pertinent provisions of standard spec 608, 610, 611, and 612, as shown on the plans, and as follows.

Prior to ordering drainage pipes and structures, verify related drainage information in the plan with the engineer. This shall include all information obtained from the bid item "Utility Line Opening" (ULO). This also includes tie-in elevations and pipe sizes with the existing storm sewer conditions.

Seal the joints for reinforced concrete pipe with internal rubber gaskets as described in subsection 608.2.1 of the standard specifications. The use of mastic joint sealer or mortar as a pipe joint method is prohibited unless directed by engineer.

Lay all round and elliptical shape storm sewers on a 6-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2.1 or when water is encountered, No. 1 coarse concrete aggregate according to standard spec 501.2.7.3. Bedding for round and elliptical pipe shall be incidental to the installation costs of the round or elliptical pipe.

Submit a dewatering plan with the ECIP for approval. Dewatering is incidental to all storm sewer pipe installation.

All field poured storm structures shall be constructed rectangular in shape, unless noted otherwise. However, if a precast structure is approved, the requirement for a rectangular structure is waived. Construct catch basins, manholes and inlets using only precast or cast in place concrete masonry options. All structures shall be reinforced concrete. Concrete brick and block options are prohibited unless directed by engineer.

Construct all structures (manholes and inlets) on a 12-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2.1 or when water is encountered, No. 1 coarse concrete aggregate according to standard spec 501.2.7.3, and as shown on the plans. Bedding for structures shall be incidental to the installation costs of the structure.

Removal of apron endwalls when connected to Culvert Pipes Temporary bid item is included in the bid item cost of Culvert Pipes Temporary. Apron endwalls that are removed as a part of the existing conditions will be paid as a separate bid item.

Submit shop drawings for all precast structures to the engineer. The engineer will coordinate with the City of Madison or City of Middleton design engineer and shall have five days to approve or reject the shop drawings. This approval will not be given until it can be confirmed that the proposed design will fit existing conditions including possible utility conflicts and until such time as all ULO's that could affect the structure/structures in question have been completed. Under no circumstance shall a precast structure be

brought to or used on the construction site without a written approval of the shop drawing for that structure prior to its use on site.

Do not use station and offset for inlet structures, as given on the storm plans, for final layout of the structure. Determine the curb line in the area of the inlet prior to pouring the inlet structure to assure proper location of the inlet relative to the curb line.

The costs to connect storm sewer to existing structures or pipes, including tapping the hole, placing the pipe, and sealing the joint will be paid for separately by bid items Storm Sewer Tap and Concrete Collars for Pipe, where shown on the plans or directed by the engineer.

The engineer will coordinate with the City of Madison or City of Middleton design engineer to review the ULO information for potential conflicts or redesign. Upon completion of the ULO information, the engineer shall be provided the information for revision of the storm sewer design as necessary. Once the design has been reviewed or modified, any revisions to the precast submittal shall be provided for review and approval. The precast submittals shall include any revised designs as necessary for consideration. The engineer shall forward on any design revision and shop drawing submittals for city design engineer to review. The city design engineer shall have five days to approve or reject shop drawings designs as necessary for consideration. Submit shop drawings for all precast structures to the engineer, who will review and forward on for the City's approval.

Contact Information:
Chris Scharf
City Engineering - Construction
Phone: (608) 267-1973
E-mail: cscharf@cityofmadison.com

Janet Schmidt
City Engineering – Stormwater Section
Phone : (608) 261-9688
E-mail : jschmidt@cityofmadison.com

39. General Requirements for Blasting Rock.

Revise in the table for vibration limits the value for Maximum Peak Particle Velocity for Rock Cut Wall from 1.0 to 2.0.

87. Luminaires Single Arm LED-City of Middleton, Item SPV.0060.19; Luminaires Dual Arm LED-City of Middleton, Item SPV.0060.20.

Replace the first and second paragraphs under section titled **B Materials** *with the following:*

Provide Luminaires Single Arm LED-City of Middleton as manufactured McGraw-Edison, model number TLM-E05-LED-E1-SL3-8030-BK-DIM.

Provide Luminaires Dual Arm LED-City of Middleton as manufactured by McGraw-Edison, model number TLM-E05-LED-E1-SL3-8030-BK-DIM, arm mount 2 at 180 degrees.

131. DELETED

165. Shortgrass Prairie Seed Mix, SPV.0085.04.

A Description
This work consists of furnishing and installing a Shortgrass Prairie Seed Mix at the locations shown on the plans according to standard spec 630 and as hereinafter provided.

B Materials
Seed shall be one of the following:

1. “Short Prairie for Medium Soils” as manufactured by Prairie Nursery, Westfield, WI. Seed shall be placed at a rate of 10 lbs/acre.
2. “Shortgrass Prairie Seed Mix for Medium-Dry Soils” as manufactured by Prairie Moon Nursery, Winona, MN. Seed shall be placed at a rate of 12.97 lbs/acre.
3. “Shortgrass Prairie for Medium Soils” as manufactured by Agrecol LLC., Evansville, WI. Seed shall by placed at a rate of 13.5 lbs/acre.
4. “Mesic Short Prairie Mix” as manufactured by Shooting Star Native Seed, Spring Grove, MN. Seed shall be placed at a rate of 10 lbs/acre.
5. Or equal.

Any substitution must have prior approval of the engineer. If an alternative is allowed, the rate of seed may be altered as a condition of approval, and seed shall be native ecotypes. No improved varieties are allowed.

Seed source shall be native ecotypes from Southeastern Minnesota, Eastern Iowa, Southern Wisconsin or Northern Illinois.

C Construction
Do not complete seeding later than September 15 without written approval from the engineer.
Apply a seeding rate for the Shortgrass Prairie Seed Mix as recommended by the seed mix provider and approved by the engineer. The plans estimate using a rate of 10 lbs/acre; notify the engineer if a different rate is recommended by seed supplier.

D Measurement
The department will measure Shortgrass Prairie Seed Mix by the pound, 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.0085.04	Shortgrass Prairie Seed Mix	LB

Payment is full compensation for providing, handling, and storing all seed; for providing the required culture and inoculating seed as specified and as needed; and for preparing the seed bed, sowing, covering and firming the seed; for furnishing and installing all materials, including but not limited to seed.

166. Topsoil Planting Mix, SPV.0180.05.

A Description
This work consists of furnishing, placing, spreading, and finishing humus-bearing soil, adapted to sustain plant life, commonly known as topsoil, from locations the contractor furnishes beyond the limits of the right-of-way according to section 625 of the standard specifications and as hereinafter provided.

B Materials
Topsoil Planting Mix shall be a mix of 2:1:1 pulverized and/or shredded general use topsoil, sand and compost respectively. Topsoil shall be a humus bearing soil composed of <70 percent silt, <70 percent sand, and <30 percent clay. The topsoil shall be free of noxious/invasive weeds, stones, debris, and vegetable material, and free of excess peat, sand, or clay. Thoroughly mix Topsoil Planting Mix off-site prior to spreading.

C Construction
Conform to subsection 625.3 of the standard specifications.

D Measurement
The department will measure Topsoil Planting Mix by the square yard, acceptably completed. The measured quantity will equal the actual number of square yards of topsoiled area to the depth specified within the limits of construction designated on the plans, or in the contract, or as the engineer directs.

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

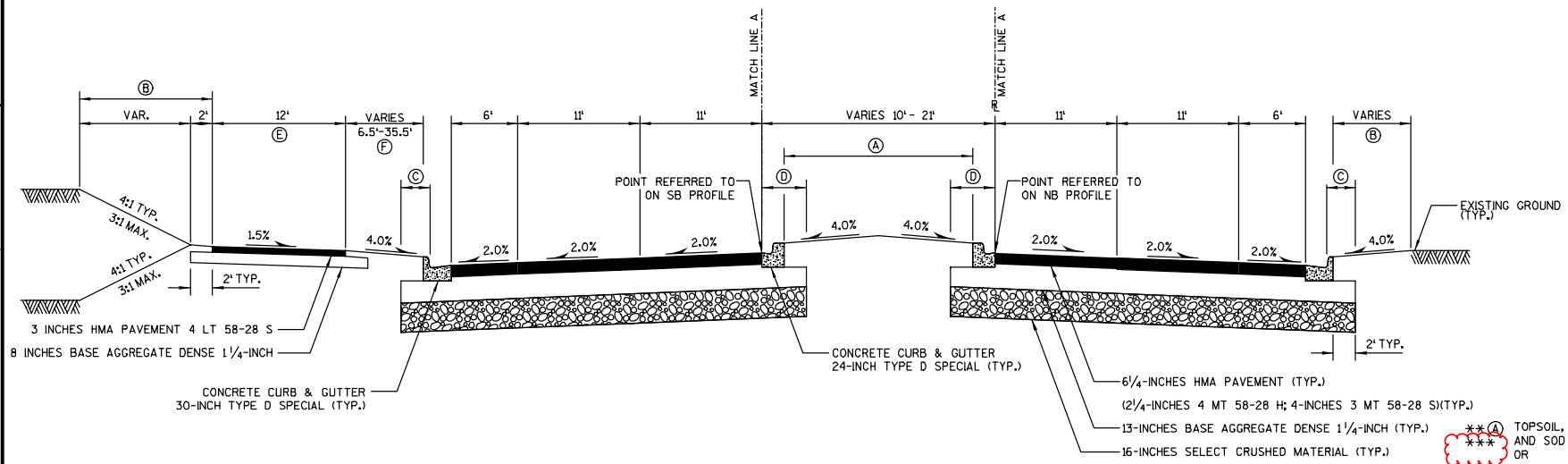
ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.05	Topsoil Planting Mix	SY

Payment is full compensation for providing, excavating, loading, hauling, and placing this material; and for undercutting excavations, or underfilling embankments necessary to receive this material. The department will make no allowance, adjustment, or measurement for payment under the Excavation bid items for undercutting cut sections, or underfilling embankments.

Schedule of Items
Attached, dated September 8, 2022, are the revised Schedule of Items Pages 12, 13, and 28 - 32.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 7, 8, 123, 124, 125, 126, 508, 509, 757 and 764.

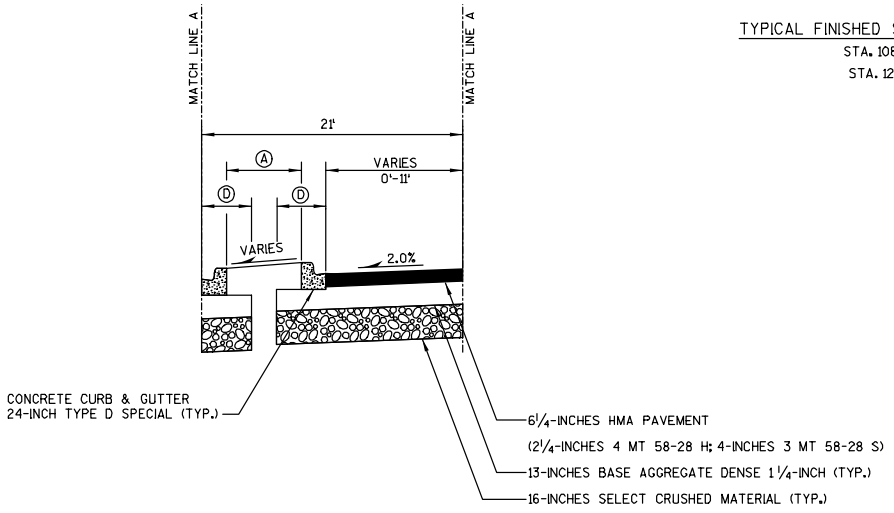
END OF ADDENDUM



TYPICAL FINISHED SECTION - PLEASANT VIEW ROAD

STA. 108+32.00 - STA. 127+95.24

STA. 129+16.31 - STA. 140+13.00



STA. 119+23.82 - STA. 121+18.43

** (A) TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN
*** OR
CONCRETE SIDEWALK 5-INCH, COLORING CONCRETE CUSTOM OVER 4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH

** (B) TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 40, MULCHING OR EROSION MAT CLASS I TYPE A (SEE MISC. QUANTITY TABLES FOR LOCATIONS)

(C) 2' LATERAL CLEARANCE

(D) 4' LATERAL CLEARANCE

(E) 10' STA. 129+16.31 TO STA. 140+13.00

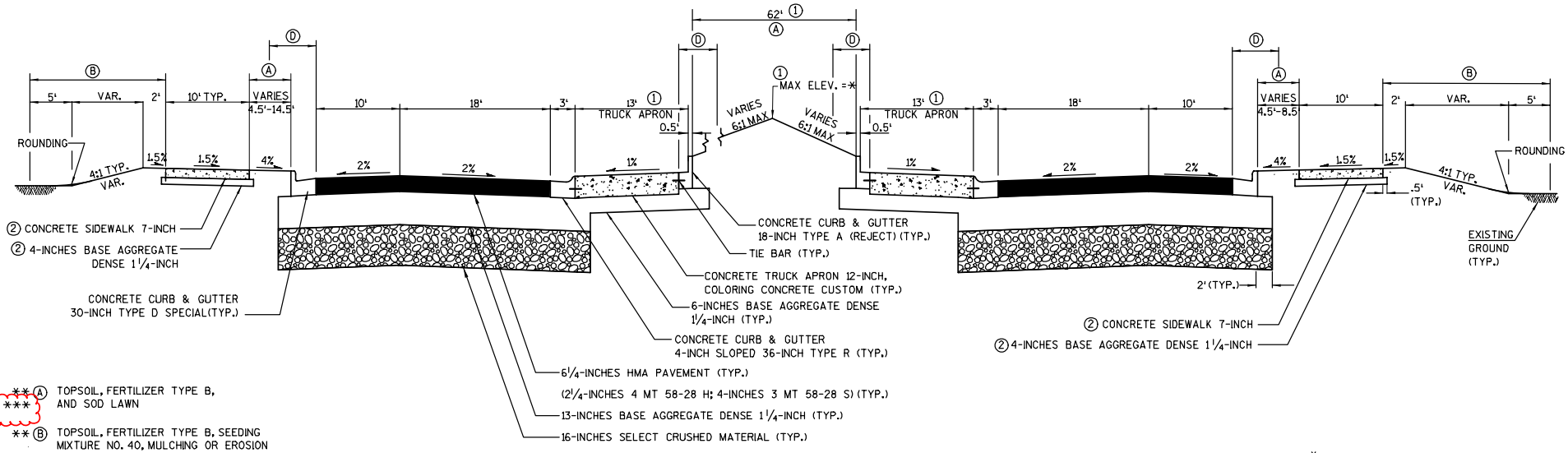
** (F) TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN

** 18-INCHES TOPSOIL IN MEDIANS
4-INCHES ELSEWHERE

*** TOPSOIL PLANT MIX, FERTILIZER TYPE B, SHORTGRASS PRAIRIE SEED MIX, AND MULCHING
STA 108+32.00 TO STA 127+95.24

Addendum No. 02
ID 5992-11-01
Revised Sheet 7
September 8, 2022

PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	TYPICAL FINISHED SECTIONS	SHEET 7	E



** (A) TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN

***

** (B) TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 40, MULCHING OR EROSION MAT CLASS I TYPE A (SEE MISC. QUANTITY TABLES FOR LOCATIONS)

(C) 2' LATERAL CLEARANCE

(D) 4' LATERAL CLEARANCE

(1) SEE PLAN DETAILS FOR ADDITIONAL INFORMATION

(2) SEE PLAN DETAILS FOR LOCATIONS OF 3 INCHES ASPHALTIC SURFACE OVER 6 INCHES BASE AGGREGATE DENSE 1 1/4-INCH

** 18-INCHES TOPSOIL IN MEDIANS
4-INCHES ELSEWHERE

*** TOPSOIL PLANT MIX, FERTILIZER TYPE B, SHORTGRASS PRAIRIE SEED MIX, AND MULCHING
STA 10+00.00 B1 TO STA 12+98.45 B1
BLACKHAWK ROAD RAB CENTRAL ISLAND

* BLACKHAWK ROAD (B1) = 1021.30'

GREENWAY BLVD (G1) = 1023.80'

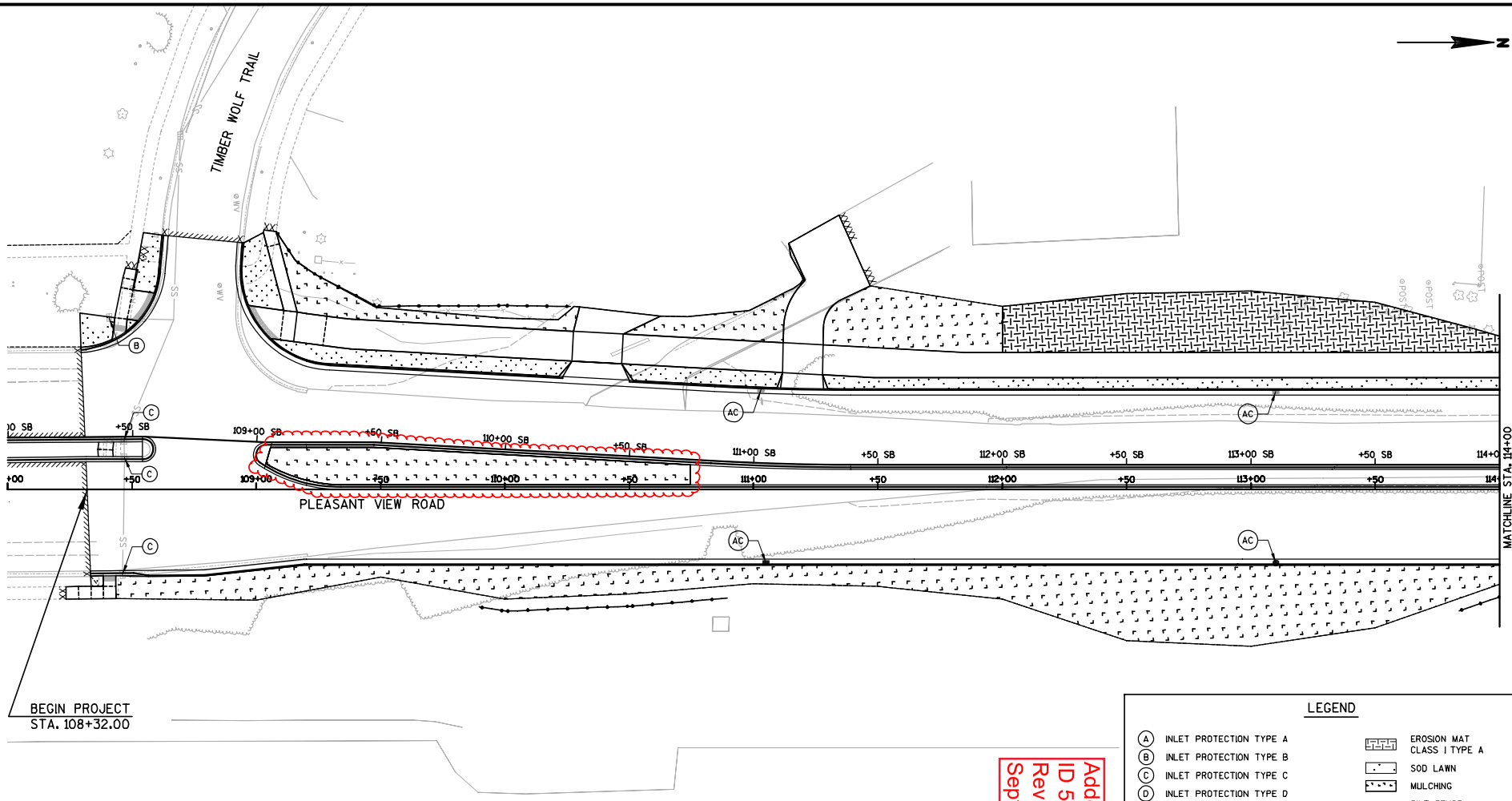
QUARRY ROAD (Q1) = 962.35'

TYPICAL FINISHED SECTION THROUGH ROUNDABOUT

STA. 10+00.00 B1 - STA. 12+98.45 B1
STA. 10+00.00 G1 - STA. 12+98.45 G1
STA. 10+00.00 Q1 - STA. 12+98.45 Q1

Addendum No. 02
ID 5992-11-01
Revised Sheet 8
September 8, 2022

PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	TYPICAL FINISHED SECTIONS	SHEET 8	E



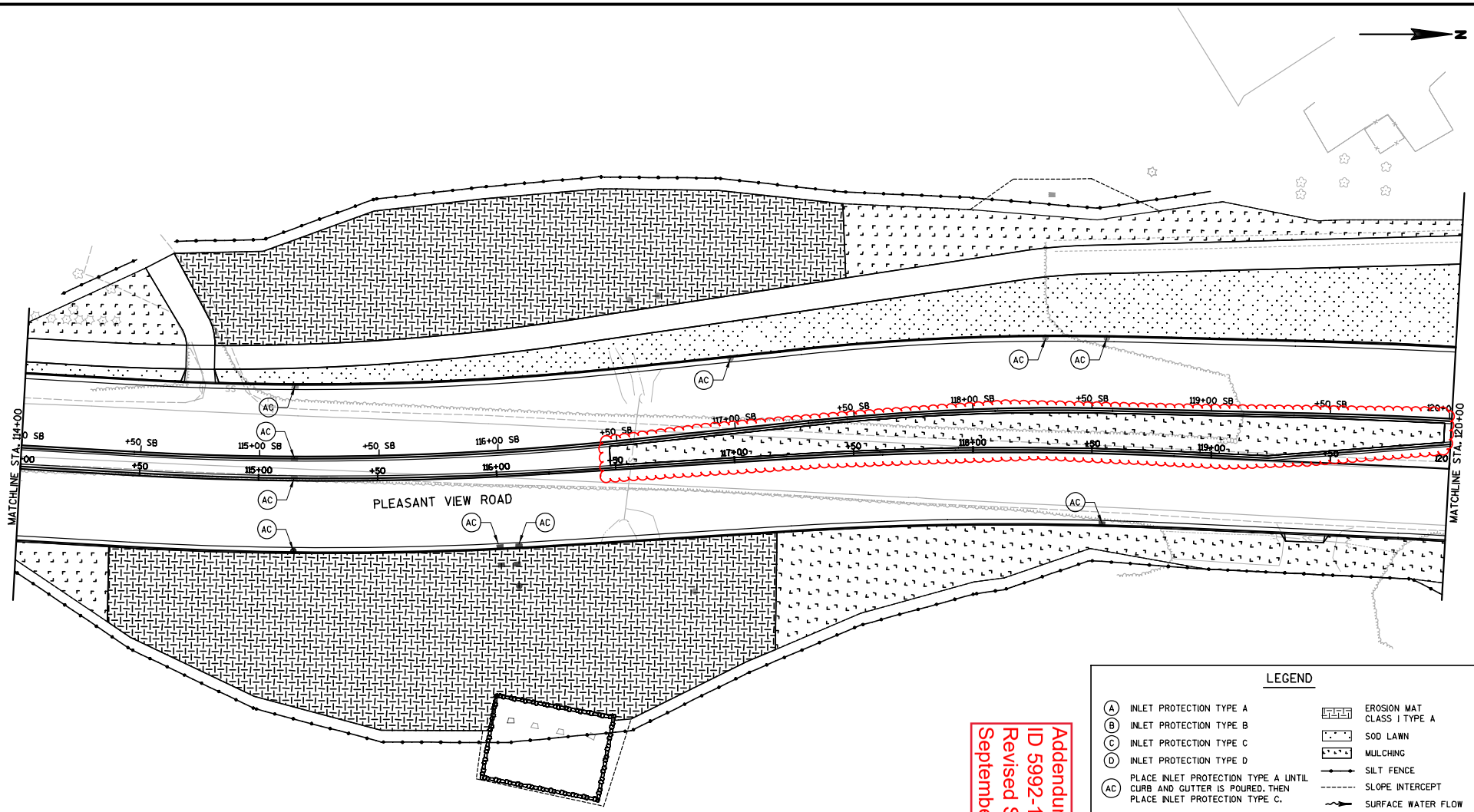
LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- CONCRETE SIDEWALK 5-INCH COLORING CONCRETE CUSTOM
- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- EROSION MAT CLASS I TYPE A
- SOD LAWN
- MULCHING
- SILT FENCE
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- WORK ZONE
- RIPRAP

Addendum No. 02
ID 5992-11-01
Revised Sheet 123
September 8, 2022

PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	EROSION CONTROL - PLEASANT VIEW ROAD	SHEET 123	E

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\022001_ec.dgn PLOT DATE : 9/7/2022 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



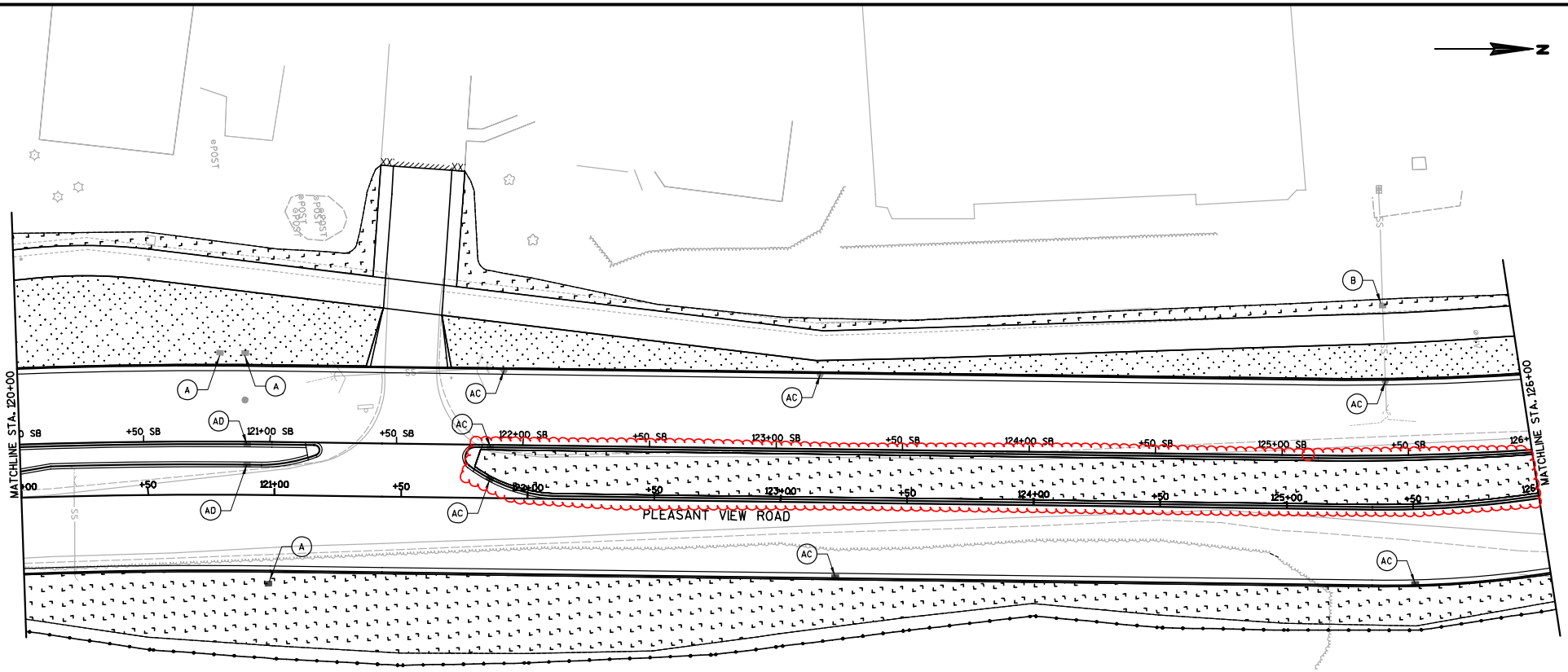
LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- CONCRETE SIDEWALK 5-INCH COLORING CONCRETE CUSTOM
- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- EROSION MAT CLASS I TYPE A
- SOD LAWN
- MULCHING
- SILT FENCE
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- WORK ZONE
- RIPRAP

Addendum No. 02
ID 5992-11-01
Revised Sheet 124
September 8, 2022

PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	EROSION CONTROL - PLEASANT VIEW ROAD	SHEET 124	E

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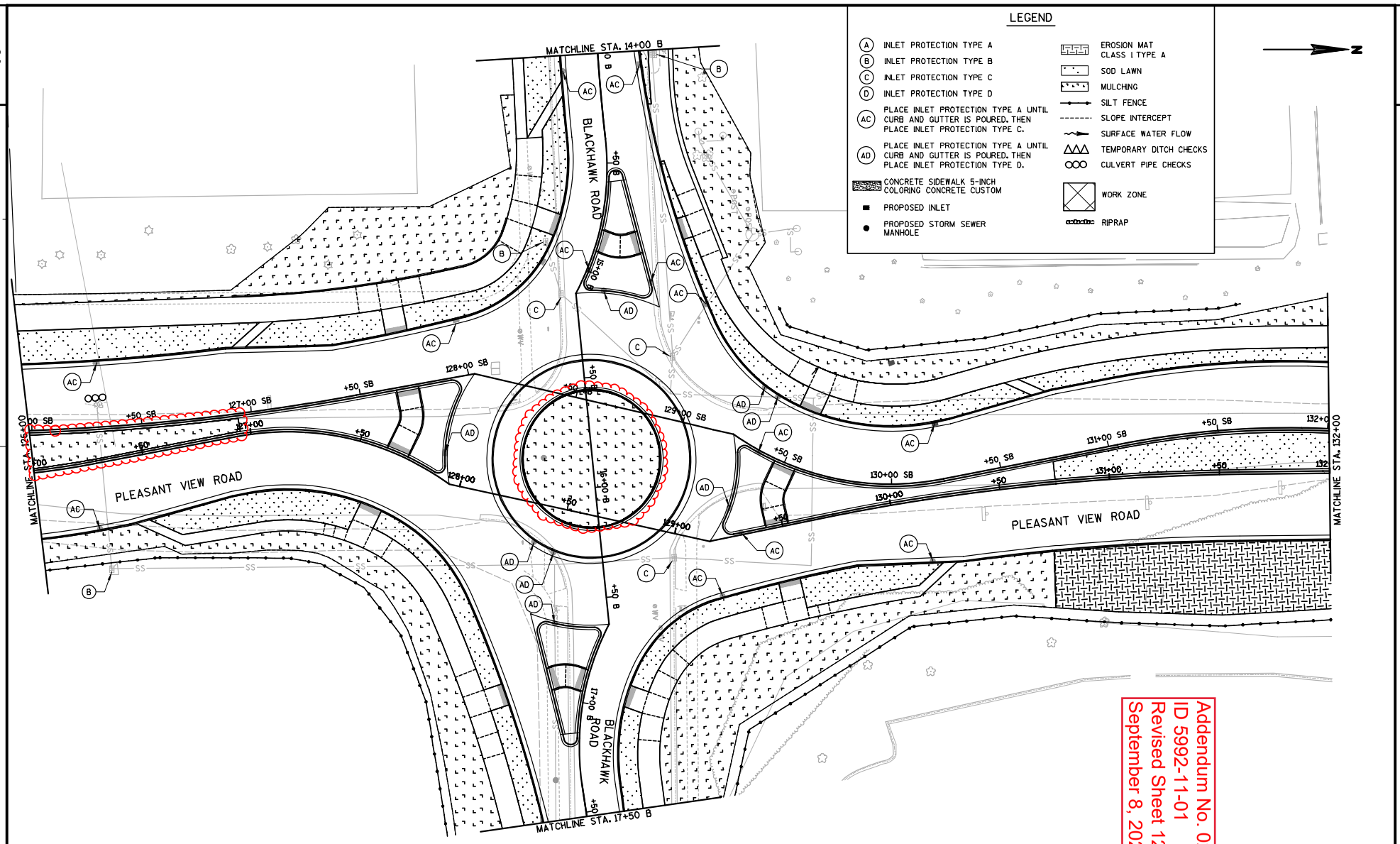


LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- CONCRETE SIDEWALK 5-INCH COLORING CONCRETE CUSTOM
- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- EROSION MAT CLASS I TYPE A
- SOD LAWN
- MULCHING
- SILT FENCE
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- WORK ZONE
- RIPRAP

Addendum No. 02
ID 5992-11-01
Revised Sheet 125
September 8, 2022

PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	EROSION CONTROL - PLEASANT VIEW ROAD	SHEET 125	E



PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	EROSION CONTROL - PLEASANT VIEW ROAD	SHEET 126	E

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\022004_ec.dgn PLOT DATE : 9/7/2022 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

FINISHING ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	* 625.0100 TOPSOIL SY	SPV.0185.05 TOPSOIL PLANTING MIX SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	* 630.0110 SEEDING MIXTURE NO. 10 LB	630.0140 SEEDING MIXTURE NO. 40 LB	SPV.0085.03 NO MOW LAWN SEED LB	SPV.0085.04 SHORTGRASS PRAIRIE SEED MIX LB	* 630.0500 SEED WATER MGAL	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
0010	STAGE 1	108+47.7 - 119+08.9	NB TEMP WIDENING	---	---	1,250	740	1.3	26.8	---	---	---	44.7	---	---
	STAGE 1	121+54. - 126+22.	NB TEMP WIDENING	---	---	---	130	0.1	1.8	---	---	---	3.0	---	---
		SUBTOTAL STAGE 1 CATEGORY 0010		0	0	1,250	870	1.4	28.6	0	0	0.0	47.7	0	0
0060	STAGE 1	129+99. - 155+80.	SB TEMP WIDENING	---	---	620	5,500	0.1	82.3	---	---	---	136.9	---	---
	STAGE 1	151+50. - 163+00.	NB GRADING	---	---	---	12,500	0.1	168.4	---	---	---	280.1	---	---
	STAGE 1	166+00. - 170+87.	NB TEMP WIDENING	---	---	530	---	0.1	7.1	---	---	---	11.8	---	---
	STAGE 1	166+00. - 170+87.	NB TEMP WIDENING	---	---	530	---	0.1	7.1	---	---	---	11.8	---	---
	STAGE 1	172+15. - 178+00.	NB TEMP WIDENING	---	---	---	140	0.1	1.9	---	---	---	3.2	---	---
	STAGE 1	174+50. - 174+50.	STORM SEWER TRENCH	1,300	---	1,700	---	0.1	---	30.0	---	---	37.9	---	---
		SUBTOTAL STAGE 1 CATEGORY 0060		1,300	0	3,380	18,140	0.6	266.8	30	0	0.0	481.7	0	0
		TOTALS STAGE 1		1,300	0	4,630	19,010	2.0	295.4	30	0	0.0	529.4	0	0
0010	STAGE 2	108+32.0 - 127+50.	SB TERRACE	2,650	---	---	---	1.7	---	---	---	---	---	59.6	2,650
	STAGE 2	108+32.0 - 127+95.	SB OUTSIDE SIDEWALK	3,700	---	1,800	1,900	2.3	---	30.0	35.0	---	82.6	---	---
	STAGE 2	10+71.2B - 15+42.8	BLACKHAWK LT OUTSIDE SIDEWALK	750	---	750	---	0.5	---	15.0	---	---	16.9	---	---
	STAGE 2	130+72.0 - 138+50.0	SB OUTSIDE	2,050	---	740	1,300	1.3	---	35.0	---	---	45.6	---	---
	STAGE 2	138+50.0 - 51+39.2G	SB OUTSIDE SIDEWALK	250	---	250	---	0.2	---	4.5	---	---	5.6	---	---
	STAGE 2	138+61.0 - 52+25.7G	SB TERRACE	380	---	---	---	0.1	---	---	---	---	---	8.6	380
		SUBTOTAL STAGE 2 CATEGORY 0010		9,780	0	3,540	3,200	6.1	0	84.5	35.0	0.0	150.7	68.2	3,030
0060	STAGE 2	51+90.3G - 53+38.6G	GREENWAY MEDIAN	230	---	---	---	0.1	---	---	---	---	---	5.3	230
	STAGE 2	132+00.0 - 134+50.0	GOLF COURSE STOCKPILE	---	---	3,100	---	---	---	---	---	---	---	---	---
	STAGE 2	142+50.0 - 53+38.6G	GREENWAY LT TERRACE	470	---	---	---	0.3	---	---	---	---	---	10.6	470
	STAGE 2	142+50.0 - 52+30.5G	GREENWAY LT OUTSIDE SIDEWALK	450	---	450	---	0.3	---	8.0	---	---	10.0	---	---
	STAGE 2	142+50.0 - 155+00.0	NB TERRACE	1,150	---	---	---	0.7	---	---	---	---	---	26.4	1,150
	STAGE 2	142+50.0 - 155+00.0	NB OUTSIDE SIDEWALK	2,850	---	1,700	1,150	1.8	---	30.0	20	---	63.5	---	---
	STAGE 2	156+00.0 - 166+00.0	NB OUTSIDE SIDEWALK	2,950	---	1,050	1,900	1.9	---	55.0	---	---	66.7	---	---
	STAGE 2	156+00.0 - 166+00.0	NB TERRACE	910	---	---	---	0.6	---	---	---	---	---	20.5	910
	STAGE 2	156+00.0 - 166+00.0	MEDIAN	830	---	---	---	0.5	---	---	---	---	---	18.7	830
	STAGE 2	156+00.0 - 166+00.0	SB TERRACE	1,500	---	---	---	1.0	---	---	---	---	---	34.0	1,500
	STAGE 2	156+00.0 - 166+00.0	SB OUTSIDE SIDEWALK	4,450	---	1,450	3,000	2.8	---	---	80	---	99.6	---	---
	STAGE 2	166+00.0 - 178+00.0	SB OUTSIDE SIDEWALK	6,750	---	2,500	4,200	4.2	---	45.0	75	---	151.4	---	---
	STAGE 2	166+00.0 - 178+00.0	SB TERRACE	1,550	---	---	---	1.0	---	---	---	---	---	35.2	1,550
		SUBTOTAL STAGE 2 CATEGORY 0060		24,090	0	10,250	10,250	15.2	0	138.0	175.0	0.0	391.2	150.7	6,640
		TOTALS STAGE 2		33,870	0	13,790	13,450	21.3	0	222.5	210.0	0.0	541.9	218.9	9,670
0060	STAGE 2A	10+71.2B - 15+39.3B	BLACKHAWK LT TERRACE	260	---	---	---	0.2	---	---	---	---	---	5.9	260
0010	STAGE 2B	9+71.1B - 15+20.8	BLACKHAWK RT TERRACE	920	---	---	---	0.6	---	---	---	---	---	20.7	920
0010	STAGE 3	108+32.0 - 126+41.5	NB OUTSIDE	5,150	---	3,100	2,000	3.2	---	55.0	35	---	115.2	---	---
	STAGE 3	116+48.0 - 119+97.0	MEDIAN	---	500	500	---	0.3	---	---	---	1.0	11.2	---	---
	STAGE 3	121+79.0 - 126+95.0	MEDIAN	---	890	890	---	0.6	---	---	---	2.0	19.9	---	---
	STAGE 3	126+41.5 - 20+52.8	BLACKHAWK RT OUTSIDE SIDEWALK	700	---	700	---	0.1	---	15.0	---	---	15.6	---	---
	STAGE 3	126+41.5 - 21+16.36B	BLACKHAWK RT TERRACE	530	---	---	---	0.3	---	---	---	---	---	12.0	530
	STAGE 3	130+72.0 - 21+16.36B	BLACKHAWK LT TERRACE	470	---	---	---	0.3	---	---	---	---	---	10.5	470
	STAGE 3	130+72.0 - 20+43.5B	BLACKHAWK LT OUTSIDE SIDEWALK	1,150	---	1,150	---	0.7	---	20.0	---	---	25.3	---	---
		SUBTOTAL STAGE 3 CATEGORY 0010		8,000	1,390	6,340	2,000	5.5	0	90.0	35.0	3.0	187.2	22.5	1,000

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CON'T NEXT PAGE

Addendum No. 02
ID 5992-11-01
Revised Sheet 508
September 8, 2022

FINISHING ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	* 625.0100 TOPSOIL SY	SPV.0185.05 TOPSOIL PLANTING MIX SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	* 630.0110 SEEDING MIXTURE NO. 10 LB	630.0140 SEEDING MIXTURE NO. 40 LB	SPV.0085.03 NO MOW LAWN SEED LB	SPV.0085.04 SHORTGRASS PRAIRIE SEED MIX LB	* 630.0500 SEED WATER MGAL	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
0060	STAGE 3	155+00.0 - 156+00.0	NB OUTSIDE SIDEWALK	400	---	400	---	0.3	---	7.2	---	---	9.0	---	---
	STAGE 3	155+00.0 - 156+00.0	NB TERRACE	95	---	---	---	0.1	---	---	---	---	---	2.1	95
	STAGE 3	155+00.0 - 156+00.0	SB TERRACE	140	---	---	---	0.1	---	---	---	---	---	3.1	140
	STAGE 3	155+00.0 - 156+00.0	SB OUTSIDE SIDEWALK	480	---	480	---	0.3	---	8.6	---	---	10.7	---	---
	STAGE 3	166+00.0 - 51+46.0	NB OUTSIDE SIDEWALK	790	---	720	75	0.5	---	15.0	---	---	17.8	---	---
	STAGE 3	166+00.0 - 51+46.0	NB TERRACE	590	---	---	---	0.4	---	---	---	---	---	13.3	590
	STAGE 3	166+50.0 - 170+44.0	MEDIAN	670	---	---	---	0.4	---	---	---	---	---	15.1	670
	STAGE 3	51+09.0 - 178+00.0	NB TERRACE	380	---	---	---	0.2	---	---	---	---	---	8.5	380
	STAGE 3	51+09.0 - 178+00.0	NB OUTSIDE SIDEWALK	1,050	---	1,050	---	0.7	---	20.0	---	---	23.3	---	---
	STAGE 3	173+43.0 - 175+12.0	MEDIAN	270	---	---	---	0.2	---	---	---	---	---	6.1	270
	STAGE 3	176+66.0 - 177+22.0	MEDIAN	65	---	---	---	0.0	---	---	---	---	---	1.4	65
	STAGE 3	177+36.0 - 178+00.0	MEDIAN	120	---	---	---	0.1	---	---	---	---	---	2.8	120
		SUBTOTAL STAGE 3 CATEGORY 0060		5,050	0	2,650	75	3.3	0	50.8	0.0	0.0	60.8	52.4	2,330
		TOTALS STAGE 3		13,050	1,390	8,990	2,075	8.8	0	140.8	35.0	3.0	248.0	74.9	3,330
0010	STAGE 4	109+06.4 - 110+74.5	MEDIAN	---	230	230	---	0.1	---	---	---	0.5	5.1	---	---
0060	STAGE 4	15+42.8 - 155+00.0	SB OUTSIDE SIDEWALK	13,000	---	13,000	---	8.6	---	55.0	---	---	69.7	---	---
	STAGE 4	15+39.38 - 155+00.0	SB TERRACE	2,900	---	---	---	1.8	---	---	---	---	---	65.2	2,900
	STAGE 4	130+75.0 - 139+00.0	MEDIAN	1,250	---	---	---	0.8	---	---	---	---	---	28.3	1,250
	STAGE 4	142+60.0 - 147+36.0	MEDIAN	820	---	---	---	0.5	---	---	---	---	---	18.3	820
	STAGE 4	149+42.0 - 151+15.0	MEDIAN	240	---	---	---	0.2	---	---	---	---	---	5.4	240
	STAGE 4	171+10.8 - 171+68.8	QUARRY RAB CENTRAL ISLAND	310	---	---	---	0.2	---	---	---	---	---	6.9	310
		SUBTOTAL STAGE 4 CATEGORY 0060		18,520	0	13,000	0	12.1	0	55.0	0.0	0.0	69.7	124.1	5,520
		TOTALS STAGE 4		18,520	230	13,230	0	12.2	0	55.0	0.0	0.5	69.7	124.1	5,520
0010	STAGE 5	128+24.2 - 128+87.2	BLACKHAWK RAB CENTRAL ISLAND	---	340	340	---	0.2	---	---	---	1.0	7.5	---	---
0060	STAGE 5	140+43.2 - 141+06.2	GREENWAY RAB CENTRAL ISLAND	340	---	---	---	0.2	---	---	---	---	---	7.5	340
		TOTALS STAGE 5		340	340	340	---	0.4	---	---	---	1.0	7.5	7.5	340
		WASTE SITE	---	560	---	560	---	0.4	7.5	---	---	---	12.5	---	---
		UNDISTRIBUTED	---	14,000	190	8,450	7,000	9.1	60.6	90	50	1.0	408.9	216.6	4,150
		GRAND TOTAL (CATEGORY 0010)		25,980	2,150	16,205	9,570	18.7	62.7	219.5	95.0	5.0	596.3	219.7	7,025
		GRAND TOTAL (CATEGORY 0060)		56,840	0	33,785	31,965	36.4	300.9	318.8	200.0	0.5	1,214.1	448.9	17,165
		GRAND TOTALS		82,820	2,150	49,990	41,535	55.1	363.5	538.3	295.0	5.5	1,810.4	668.6	24,190

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

MOBILIZATIONS EROSION CONTROL

CATEGORY	PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	5992-11-01	5	3
0060	5992-11-01	10	7

Addendum No. 02
ID 5992-11-01
Revised Sheet 509
September 8, 2022

PROJECT NO: 5992-11-01	HWY: PLEASANT VIEW ROAD	COUNTY: DANE	MISCELLANEOUS QUANTITIES	SHEET 509	E

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

THE TRUSS SHALL BE ANCHORED TO THE ABUTMENTS IN A MANNER TO:
- ALLOW THERMAL MOVEMENTS ALONG ℄ OF THE BIKE PATH.
- PREVENT HORIZONTAL TRANSLATION OF THE SUPERSTRUCTURE PERPENDICULAR TO THE ℄ OF THE BIKE PATH.

THE TRUSS SHALL BE CAMBERED AN AMOUNT EQUAL TO THE PROFILE GRADE LINE PLUS AN AMOUNT TO OFFSET THE CALCULATED DEAD LOAD DEFLECTION.

PROTECTIVE SCREENING, CONCRETE DECK AND REINFORCEMENT, CURBS, BEARINGS, AND ANCHOR BOLTS ARE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-892 LRFD".

THE PAINT COLOR FOR THE STEEL TRUSS SHALL BE AMS #27038 (BLACK). THE ACCENT COLOR FOR THE OUTSIDE FACE OF THE TOP CHORD SHALL BE PANTONE MATCHING SYSTEM COLOR PMS 188 (DARK RED). REFER TO SHEET 9.

TRUSS AND CONCRETE DECK SHALL BE DESIGNED TO ACCOMMODATE A 1¾-INCH STRIP SEAL JOINT. THE TRUSS FABRICATOR SHALL COORDINATE WITH THE JOINT FABRICATOR TO OBTAIN NECESSARY JOINT AND ANCHORAGE DETAILS. SEE SHEET 8 FOR EXPANSION JOINT INFORMATION.

TRUSS SHALL BE DESIGNED AS SIMPLE SPAN BETWEEN ABUTMENTS. TOP CHORD SHALL BE FABRICATED TO A PARABOLIC CURVE. THE TRUSS APPEARANCE SHALL RESEMBLE WHAT IS SHOWN IN THE ELEVATION VIEW ON SHT. 1.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE, THE TOP AND FRONT FACE OF THE CURB, TOP OF ABUTMENT BACKWALL, AND VERTICAL AND HORIZONTAL SURFACES OF PAVING NOTCH.

WALLS R-13-366 AND R-13-367 WILL BE CONSTRUCTED CONCURRENTLY WITH BRIDGE B-13-892. CONSTRUCTION SEQUENCE FOR THE MSE WALL AND SOIL REINFORCEMENT MUST BE COORDINATED WITH ABUTMENT CONSTRUCTION.

ANCHOR BOLTS, BEARINGS, AND THEIR LOCATION ON THE SUBSTRUCTURE UNITS SHALL BE PROVIDED BY THE BRIDGE MANUFACTURER AND INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-892 LRFD".

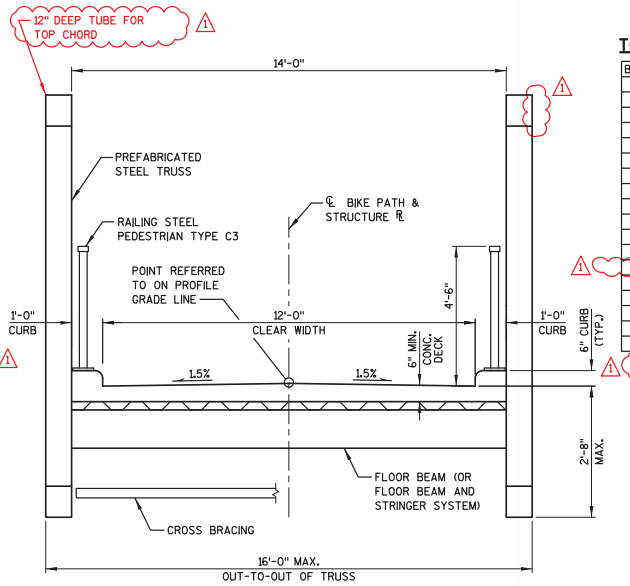
IF CROSS SECTION OF PEDESTRIAN BRIDGE DIFFERS FROM THAT SHOWN, THE ABUTMENT SHALL BE MODIFIED TO ACCOMMODATE THE CHANGE. MODIFICATIONS TO THE ABUTMENTS SHALL BE APPROVED BY THE DESIGN ENGINEER.

THE CONCRETE DECK SHALL BE DESIGNED AND REINFORCED TO SUPPORT DEAD AND LIVE LOADS WITHOUT CONTRIBUTION FROM THE DECK FORMING SYSTEM. REINFORCEMENT SHALL BE EPOXY COATED.

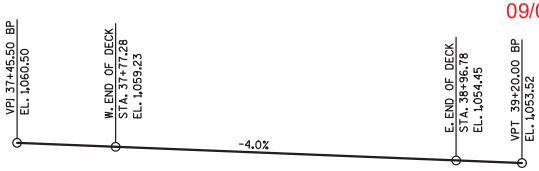
M.S.E. BACKFILL AT THE ABUTMENTS, M.S.E. REINFORCEMENT STRIPS, AND THE CONNECTION OF THE STRIPS TO THE ABUTMENT ARE INCLUDED IN THE BID ITEM "ABUTMENT ANCHORAGE".

EXCAVATION FOR BRIDGE IS INCLUDED IN THE BID ITEM FOR M.S.E. RETAINING WALLS R-13-366 AND R-13-367.

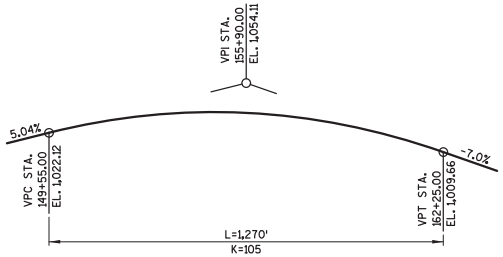
IN ADDITION TO THE VERTICAL DESIGN LOADS INDICATED, DECK AND CURBS ON THE PREFABRICATED TRUSS SHALL BE DESIGNED FOR PEDESTRIAN RAILING LIVE LOADS PER THE AASHTO LRFD BRIDGE DESIGN SPECIFCATIONS.



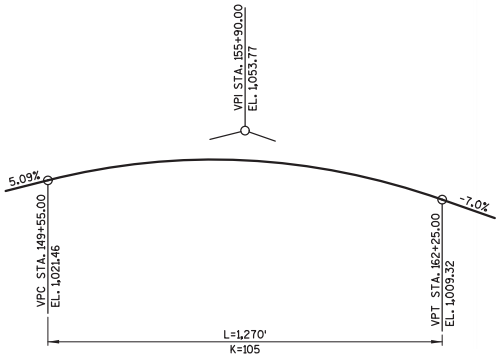
CROSS SECTION THRU TRUSS STRUCTURE
(LOOKING EAST)



PROFILE GRADE LINE
BIKE PATH



PROFILE GRADE LINE
PLEASANT VIEW ROAD - SOUTHBOUND



PROFILE GRADE LINE
PLEASANT VIEW ROAD - NORTHBOUND

STATE PROJECT NUMBER
5992-11-01

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	E. ABUT.	W. ABUT.	SUPERSTRUCTURE	TOTALS
502.0100	CONCRETE MASONRY BRIDGES	CY	34.3	34.3	--	69
502.3101	EXPANSION DEVICE	LF	12	12	--	24
502.3200	PROTECTIVE SURFACE TREATMENT	SY	4	4	199	207
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB.	1,010	1,010	--	2,020
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB.	1,410	1,410	--	2,820
506.8006.S	PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-892 LRFD	EA	--	--	1	1
513.8016	RAILING STEEL PEDESTRIAN TYPE C3	LF	32	32	239	303
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8	--	16
517.1000	PAINTING EPOXY SYSTEM STEEL TRUSS B-13-892	LS	--	--	1	1
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	9	9	--	18
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	57	69	--	126
604.0400	SLOPE PAVING CONCRETE	SY	6	6	--	12
SPV.0090	ABUTMENT ANCHORAGE	LF	21	21	--	42
	NON-BID ITEMS					
	FILLER	SIZE				3/4"
	EXPANDED POLYSTYRENE	SIZE				1"
	NAME PLATE					

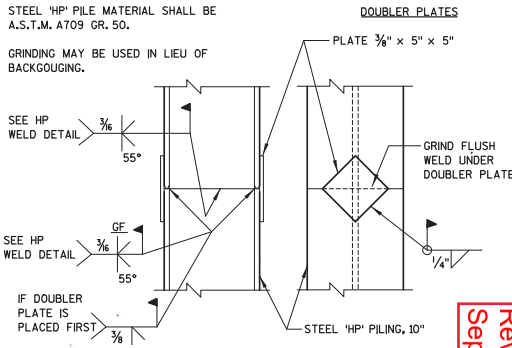
WISCONSIN
BRETT M. OFTEDAHL
E-41
MADISON
WI
PROFESSIONAL ENGINEER
9/1/2022

SDR
09/01/22

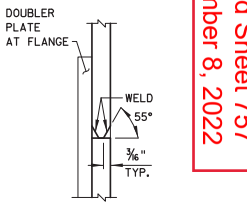
PILE SPLICE NOTES

STEEL 'HP' PILE MATERIAL SHALL BE A.S.T.M. A709 GR. 50.

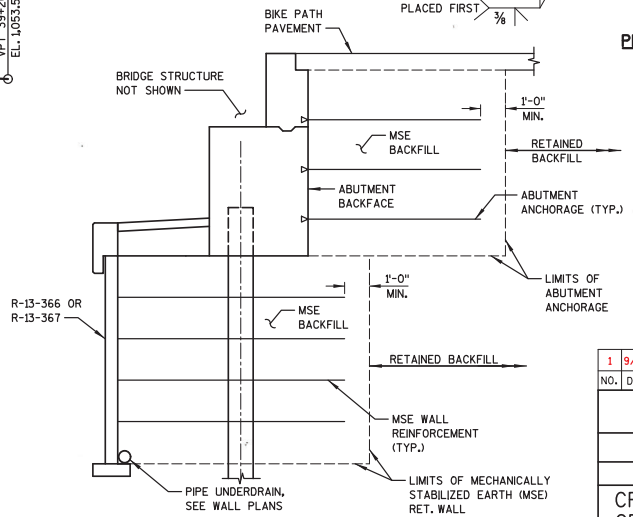
GRINDING MAY BE USED IN LIEU OF BACKGOUGING.



PILE SPLICE DETAILS



HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR



TYPICAL SECTION THRU ABUTMENT AT MSE WALL

Addendum No. 02
ID 5992-11-01
Revised Sheet 757
September 8, 2022

NO.	DATE	REVISION	BY
1	9/1/22	ELIMINATE ARCH FACADE PLATES.	BMO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-892

DRAWN BY DTH | PLANS CK'D. EJC

CROSS SECTION, GENERAL NOTES & DETAILS

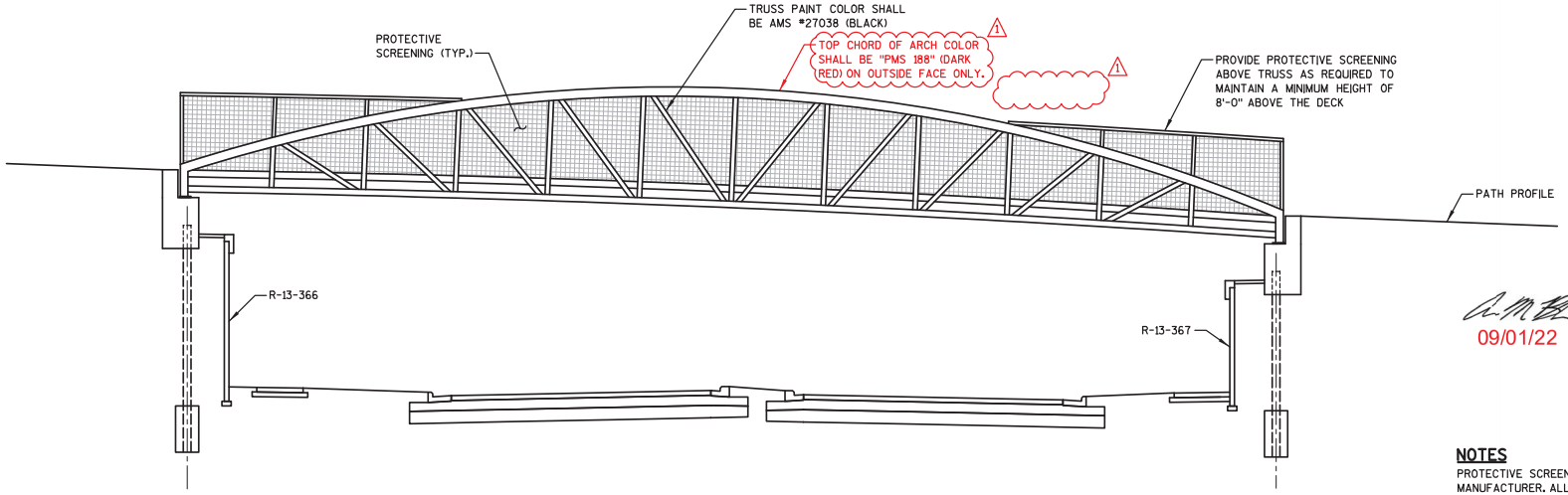
SHEET 2
757

8

8

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\080102_cs.dgn

STATE PROJECT NUMBER
5992-11-01



ELEVATION
(TYPICAL EACH SIDE)

SDR
09/01/22



NOTES

PROTECTIVE SCREENING SHALL BE PROVIDED BY THE PREFABRICATED BRIDGE MANUFACTURER. ALL WORK ASSOCIATED WITH PROTECTIVE SCREENING SHALL BE INCIDENTAL TO BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE LRFD B-13-892 LRFD".

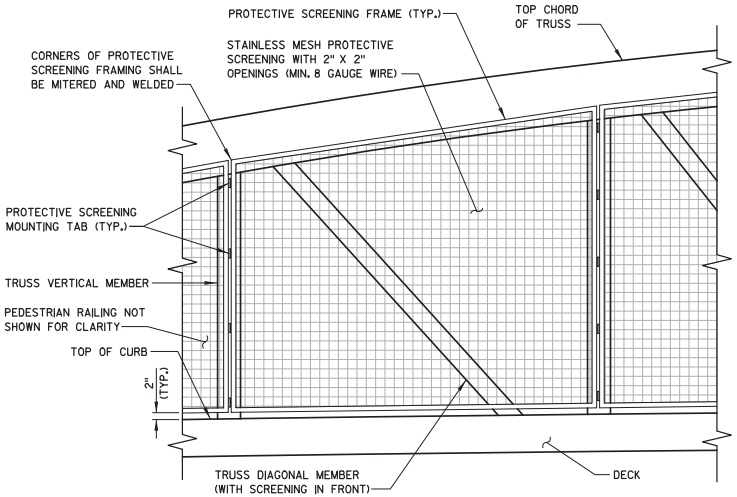
STAINLESS STEEL MESH SHALL BE ORIENTED VERTICALLY/HORIZONTALLY ACROSS THE FULL LENGTH OF THE BRIDGE.

ALL MATERIALS FOR THE PROTECTIVE SCREENING, INCLUDING HARDWARE, SHALL BE STAINLESS STEEL.

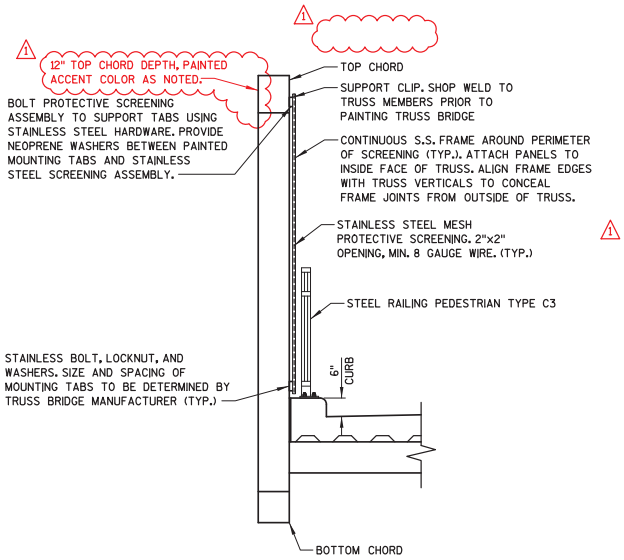
ALTERNATE DETAILS FOR THE PROTECTIVE SCREENING MAY BE PROPOSED BY THE PREFABRICATED BRIDGE MANUFACTURER, BUT MUST BE APPROVED BY THE ENGINEER. THE DESIGN INTENT IS TO ALIGN THE PROTECTIVE SCREENING FRAME WITH THE TRUSS MEMBERS TO MINIMIZE VISIBILITY OF THE FRAMES FROM THE OUTSIDE OF THE TRUSS.

PROTECTIVE SCREENING SHALL BE PROVIDED ON BOTH SIDES OF THE STEEL TRUSS PEDESTRIAN BRIDGE FROM THE TOP OF THE CURB TO THE TOP CHORD OF THE TRUSS OR 8 FEET ABOVE THE BRIDGE DECK, WHICHEVER IS GREATER. PROVIDE PROTECTIVE SCREENING THE ENTIRE LENGTH OF THE BRIDGE.

PROVIDE ADDITIONAL FRAMING ABOVE THE TRUSS AS REQUIRED TO SUPPORT THE PROTECTIVE SCREENING WHERE PROTECTIVE SCREENING EXTENDS ABOVE THE TOP CHORD AT EACH END OF THE BRIDGE.



PROTECTIVE SCREENING ELEVATION
(LOOKING AT INSIDE FACE OF TRUSS)



PROTECTIVE SCREENING DETAIL

1

Addendum No. 02
ID 5992-11-01
Revised Sheet 764
September 8, 2022

NO.	DATE	REVISION	BY
1	9/1/22	ELIMINATE ARCH FACADE PLATES.	BMO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-892

DRAWN BY DTH | PLANS CK'D. EJC

ARCH AND PROTECTIVE SCREENING DETAILS

SHEET 9
764

8

8

FILE NAME : S:\MAD\1000--1099\1020\101\Micros\Plan\Phase 1\080109_ps_A.dgn

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0336	620.0300 Concrete Median Sloped Nose	1,604.000 SF	_____.____	_____.____
0338	623.0200 Dust Control Surface Treatment	67,300.000 SY	_____.____	_____.____
0340	624.0100 Water	1,484.100 MGAL	_____.____	_____.____
0342	625.0100 Topsoil	109,661.000 SY	_____.____	_____.____
0344	627.0200 Mulching	57,740.000 SY	_____.____	_____.____
0346	628.1504 Silt Fence	17,820.000 LF	_____.____	_____.____
0348	628.1520 Silt Fence Maintenance	35,650.000 LF	_____.____	_____.____
0350	628.1905 Mobilizations Erosion Control	27.000 EACH	_____.____	_____.____
0352	628.1910 Mobilizations Emergency Erosion Control	20.000 EACH	_____.____	_____.____
0354	628.2002 Erosion Mat Class I Type A	43,465.000 SY	_____.____	_____.____
0356	628.2027 Erosion Mat Class II Type C	16,619.000 SY	_____.____	_____.____
0358	628.2039 Erosion Mat Class III Type D	2,832.000 SY	_____.____	_____.____
0360	628.7005 Inlet Protection Type A	162.000 EACH	_____.____	_____.____
0362	628.7010 Inlet Protection Type B	20.000 EACH	_____.____	_____.____
0364	628.7015 Inlet Protection Type C	125.000 EACH	_____.____	_____.____
0366	628.7020 Inlet Protection Type D	39.000 EACH	_____.____	_____.____
0368	628.7504 Temporary Ditch Checks	2,363.000 LF	_____.____	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0370	628.7515.S Stone Ditch Checks	21.000 CY	_____.____	_____.____
0372	628.7555 Culvert Pipe Checks	57.000 EACH	_____.____	_____.____
0374	628.7560 Tracking Pads	21.000 EACH	_____.____	_____.____
0376	629.0210 Fertilizer Type B	60.800 CWT	_____.____	_____.____
0378	630.0110 Seeding Mixture No. 10	394.500 LB	_____.____	_____.____
0380	630.0140 Seeding Mixture No. 40	648.800 LB	_____.____	_____.____
0382	630.0500 Seed Water	2,374.100 MGAL	_____.____	_____.____
0384	631.0300 Sod Water	711.300 MGAL	_____.____	_____.____
0386	631.1000 Sod Lawn	26,090.000 SY	_____.____	_____.____
0388	631.1100 Sod Erosion Control	4.000 SY	_____.____	_____.____
0390	632.0101 Trees (species) (size) (root) 01. Chokeberry, common, Prunus virginiana, B&B, 1.5" CAL.	13.000 EACH	_____.____	_____.____
0392	632.0101 Trees (species) (size) (root) 02. Hawthorn, Cockspur, Crataegus crusgalli, B&B, 1.5" CAL.	12.000 EACH	_____.____	_____.____
0394	632.0101 Trees (species) (size) (root) 03. Maple, Amur, Acer Ginnala, B&B, 1.5" CAL.	10.000 EACH	_____.____	_____.____
0396	632.0101 Trees (species) (size) (root) 04. Redbud, Eastern, Cercis canadensis, B&B, 1.5" CAL.	11.000 EACH	_____.____	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0812	SPV.0060 Special 70. Electrical Pullbox Type V-City of Madison	2.000 EACH	_____.____	_____.____
0814	SPV.0060 Special 71. Electrical Pullbox Type VII-City of Madison	3.000 EACH	_____.____	_____.____
0816	SPV.0060 Special 72. Construction Staking Stormwater Management Ponds	4.000 EACH	_____.____	_____.____
0818	SPV.0060 Special 73. Remove Traffic Signals, Pleasant View Road & Blackhawk Road	1.000 EACH	_____.____	_____.____
0822	SPV.0060 Special 75. Field Facilities Special	1.000 EACH	_____.____	_____.____
0824	SPV.0085 Special 01. Detention Basin Seed Mix	8.000 LB	_____.____	_____.____
0826	SPV.0085 Special 02. Tall Grass Prairie Seed Mix	19.000 LB	_____.____	_____.____
0828	SPV.0085 Special 03. No Mow Lawn Seed	295.000 LB	_____.____	_____.____
0830	SPV.0090 Special 01. Concrete Curb & Gutter 24-Inch Type A Special	12.000 LF	_____.____	_____.____
0832	SPV.0090 Special 02. Concrete Curb & Gutter 24-Inch Type D Special	13,623.000 LF	_____.____	_____.____
0834	SPV.0090 Special 03. Concrete Raised Median Nose Special	32.000 LF	_____.____	_____.____
0836	SPV.0090 Special 04. Sign Post	206.000 LF	_____.____	_____.____
0838	SPV.0090 Special 05. Reflective Sign Post	564.000 LF	_____.____	_____.____
0840	SPV.0090 Special 06. Sawing Curb Head	15.000 LF	_____.____	_____.____
0842	SPV.0090 Special 07. Abutment Anchorage	42.000 LF	_____.____	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0844	SPV.0090 Special 08. Fence Chain Link Polymer-Coated 4-FT R-13-362	100.000 LF	_____.____	_____.____
0846	SPV.0090 Special 09. Fence Chain Link Polymer-Coated 4-FT R-13-363	230.000 LF	_____.____	_____.____
0848	SPV.0090 Special 10. Trenchless Storm Sewer Construction, 12-Inch	30.000 LF	_____.____	_____.____
0850	SPV.0090 Special 11. Fence Chain Link Polymer-Coated 4-FT R-13-365	120.000 LF	_____.____	_____.____
0852	SPV.0090 Special 12. Fence Chain Link Polymer-Coated 4-FT R-13-366	470.000 LF	_____.____	_____.____
0854	SPV.0090 Special 13. Fence Chain Link Polymer-Coated 4-FT R-13-367	250.000 LF	_____.____	_____.____
0856	SPV.0090 Special 14. Fence Chain Link Polymer-Coated 4-FT R-13-369	550.000 LF	_____.____	_____.____
0858	SPV.0090 Special 15. Fence Chain Link Polymer-Coated 4-FT Landscape Walls	447.000 LF	_____.____	_____.____
0860	SPV.0090 Special 16. Storm Sewer Pipe PVC 10-Inch	135.000 LF	_____.____	_____.____
0862	SPV.0090 Special 17. Trenchless Storm Sewer Construction, 48-Inch	50.000 LF	_____.____	_____.____
0864	SPV.0090 Special 18. Sanitary Sewer Pipe PVC, 8-Inch	1,536.000 LF	_____.____	_____.____
0866	SPV.0090 Special 19. Sanitary Sewer Pipe PVC, 10-Inch	180.000 LF	_____.____	_____.____
0868	SPV.0090 Special 20. Select Fill for Sanitary Sewer	1,716.000 LF	_____.____	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0870	SPV.0090 Special 21. 10-Inch Diameter Sanitary Sewer Inside Casing	30.000 LF	_____.____	_____.____
0872	SPV.0090 Special 22. Water Main 20-Inch Casing Pipe	280.000 LF	_____.____	_____.____
0874	SPV.0090 Special 23. 12-Inch Trenchless Water Main	280.000 LF	_____.____	_____.____
0876	SPV.0090 Special 24. Furnish and Install Water Main Pipe & Fittings-City of Madison 6-Inch	30.000 LF	_____.____	_____.____
0878	SPV.0090 Special 25. Furnish and Install Water Main Pipe & Fittings-City of Madison 12-Inch	28.000 LF	_____.____	_____.____
0880	SPV.0090 Special 26. Furnish and Install Water Main Pipe & Fittings-City of Middleton 6-Inch	279.000 LF	_____.____	_____.____
0882	SPV.0090 Special 27. Furnish and Install Water Main Pipe & Fittings-City of Middleton 10-Inch	104.000 LF	_____.____	_____.____
0884	SPV.0090 Special 28. Furnish and Install Water Main Pipe & Fittings-City of Middleton 12-Inch	4,076.000 LF	_____.____	_____.____
0886	SPV.0090 Special 29. Select Fill for Water Main	4,799.000 LF	_____.____	_____.____
0888	SPV.0090 Special 30. Parapet Concrete Type 'TX'	1,120.000 LF	_____.____	_____.____
0890	SPV.0090 Special 31. Concrete Curb & Gutter 30-Inch Type A Special	28.000 LF	_____.____	_____.____
0892	SPV.0090 Special 32. Concrete Curb & Gutter 30-Inch Type D Special	18,571.000 LF	_____.____	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0894	SPV.0090 Special 33. Fiber Optic Cable 144-Count	3,834.000 LF	_____.____	_____.____
0896	SPV.0090 Special 34. Marking Line Epoxy 6-Inch	3,377.000 LF	_____.____	_____.____
0898	SPV.0090 Special 35. Milling and Removing Longitudinal Joint	1,500.000 LF	_____.____	_____.____
0900	SPV.0120 Special 01. Water for Detention Pond	3,484.000 MGAL	_____.____	_____.____
0902	SPV.0165 Special 01. Wall Concrete Panel Mechanically Stabilized Earth R-13-363	1,585.000 SF	_____.____	_____.____
0904	SPV.0165 Special 02. Wall Concrete Panel Mechanically Stabilized Earth R-13-364	5,130.000 SF	_____.____	_____.____
0906	SPV.0165 Special 03. Wall Concrete Panel Mechanically Stabilized Earth R-13-365	570.000 SF	_____.____	_____.____
0908	SPV.0165 Special 04. Wall Concrete Panel Mechanically Stabilized Earth R-13-366	6,235.000 SF	_____.____	_____.____
0910	SPV.0165 Special 05. Wall Concrete Panel Mechanically Stabilized Earth R-13-367	2,405.000 SF	_____.____	_____.____
0912	SPV.0165 Special 06. Wall Concrete Panel Mechanically Stabilized Earth R-13-368	6,125.000 SF	_____.____	_____.____
0914	SPV.0165 Special 07. Wall Concrete Panel Mechanically Stabilized Earth R-13-369	3,945.000 SF	_____.____	_____.____
0916	SPV.0165 Special 08. Wall Modular Block Gravity Landscape Station 152+60	600.000 SF	_____.____	_____.____
0918	SPV.0165 Special 09. Wall Modular Block Gravity Landscape Station 175+25	165.000 SF	_____.____	_____.____
0920	SPV.0165 Special 10. Wall Modular Block Gravity Landscape Station 11+40 NS	1,560.000 SF	_____.____	_____.____

Proposal ID: 20220913006 Project(s): 5310-02-75, 5992-11-01, 5992-11-02

Federal ID(s): WISC 2022382, WISC 2022380, 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
0922	SPV.0165 Special 11. Wall Modular Block Gravity R-13-362	450.000 SF	_____.____	_____.____
0924	SPV.0165 Special 12. Wall Modular Block Gravity Landscape Station 142+40	60.000 SF	_____.____	_____.____
0926	SPV.0165 Special 13. Architectural Surface Treatment, Special	1,845.000 SF	_____.____	_____.____
0928	SPV.0170 Special 01. Pavement Cleanup	199.000 STA	_____.____	_____.____
0930	SPV.0180 Special 01. Concrete Approach Slab, 6-Inch	22.000 SY	_____.____	_____.____
0932	SPV.0180 Special 03. Access Stabilization Geocell	1,413.000 SY	_____.____	_____.____
0934	SPV.0180 Special 04. Detention Basin Plug Mix	1,450.000 SY	_____.____	_____.____
0936	655.0230 Cable Traffic Signal 5-14 AWG	1,000.000 LF	_____.____	_____.____
0938	658.5069 Signal Mounting Hardware (location) 01. (USH 14 & Pleasant View Road)	LS	LUMP SUM	_____.____
0940	SPV.0035 Special 08. Roadway Embankment	11,400.000 CY	_____.____	_____.____
0942	SPV.0085 Special 04. Shortgrass Prairie Seed Mix	5.500 LB	_____.____	_____.____
0944	SPV.0180 Special 05. Topsoil Planting Mix	2,150.000 SY	_____.____	_____.____

Section: 0001 Total: _____.____

Total Bid: _____.____