HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation
06/2017 s.66.0901(7) Wis. Stats

Proposal Number: 004

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Racine	2260-07-70	WISC 2019626	Durand Ave, City Of Racine; Kentucky St To Kearney Ave	STH 011

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: $100,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: September 10, 2019 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time November 21, 2020	
Assigned Disadvantaged Business Enterprise Goal 18%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)	(Bidder Signature)
(Print or Type Name, Notary Public, State Wisconsin)	(Print or Type Bidder Name)
(Date Commission Expires)	(Bidder Title)

Notary Seal

Type of Work: **For Department Use Only**

Grading, Base, Concrete Pavemetn, Asphalt Pavement, Stom Sewer, Curb and Gutter, Sidewalk, Concrete Driveway, Fence, Plantings, Street Lighting, Traffic Signals, Sanitary Sewer, Modular Block Wall, Signs, Pavement Markings

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.

Special Provisions

Table of Contents

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project Durand Avenue, City of Racine from Kentucky Street to Kearney Avenue, Racine 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, 2019 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 (20181119)

2. Scope of Work.

The work under this contract shall consist of pavement removal, grading, concrete pavement, concrete curb and gutter, storm sewer, sidewalk, street lighting, permanent and temporary traffic signals, permanent signing, landscape and streetscape, and pavement marking, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

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

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

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

Conform to the schedule of operations for the construction staging as shown in the plan. Do not move operations within the proposed construction staging unless modifications to the staging and schedule are approved in writing by the engineer.

Contractor Coordination

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.

Conduct weekly progress meetings. The contractor's superintendent or representative, designated materials representative, subcontractor's representatives for ongoing subcontract work or subcontract work expected to begin within the next three weeks shall attend. Agenda items at the meeting shall include, but not be limited to, the following:

- Review of the contractor's and subcontractors' schedule. Indicate if the project is on, ahead or behind schedule. If behind indicate why, how much behind and how the project will get back on schedule.
- Utility conflicts and relocation schedule.
- Evaluation of progress to date.
- Outstanding Requests for Information (RFI's) or issues that may cause contract modifications.
- Shop drawing submittal status.

- Materials submittal status.
- Materials sampling and testing activities and results.
- Closure/detour schedules.
- Impacts to businesses and private properties.
- Impacts to bus routes, emergency services, postal services.
- Equipment status of orders and deliveries.

Based on the weekly progress meeting, if the engineer requests a new revised schedule, submit it according to standard spec 108.4. Failure to submit a revised schedule shall result in the engineer holding pay requests according to standard spec 108.4.

Do not close consecutive side streets at the same time without prior approval of the engineer. Coordinate side street closure with the City of Racine. Contact John C. Rooney, City Engineer at (262) 636-9460.

Do not proceed to a following construction stage until all work in the current stage is completed, including, but not limited to, temporary pavement, concrete pavement, pertinent signing, and all required traffic control devices and temporary and/or permanent pavement marking.

Do not remove from service residential or commercial driveways without sufficient notice given to tenants and/or property owners. Sufficient notice is defined as contacting 48 hours prior to removing a driveway from service. Work on the approach of driveways that are wider than 20 feet shall be staged to maintain access to the residential or commercial properties that have only one access. Close only one driveway at a time on the properties that has multiple driveways. If the contractor wishes to make other arrangements regarding driveway maintenance, these arrangements shall be agreed to in writing and signed by the prime contractor and property owner of the affected driveway. Provide a copy of the signed written agreement to the engineer.

The contractor is advised that there may be multiple mobilizations for such items as traffic control, temporary pavement marking, pavement marking, erosion control, topsoil, asphaltic surface temporary, lighting, seeding/sodding, mulching, fertilizer, drainage items, clearing and grubbing, and other incidental items related to staging required to complete the work under this contract. No additional payment will be made by the department for said mobilizations.

Comply with all local ordinances that apply to work operations, including those pertaining to working during nighttime work hours. Any ordinance variance issued by the municipality or required permits shall be furnished to the engineer, by the contractor, in writing 3 working days before performing such work.

Submit all traffic control change requests to the engineer at least 7 days prior to an actual traffic control change. A request does not constitute approval. Provide 14-day look ahead schedule to the engineer.

Provide the Erosion Control Implementation Plan (ECIP) 14 days prior to the Pre-Construction Conference.

Contact the United States Postal Service postmaster one week prior to beginning construction operations. Contractor shall provide, as needed, temporary mail boxes for residents and businesses within the project corridor. Coordinate with Mr. Edward L. Palladino, Postmaster, United States Postal Service, Racine County at 1-800-275-8777. Cost of providing temporary mail boxes is incidental to the project.

The contractor is advised that some trees, signs, fences, retaining walls within the Temporary Limited Easement (TLE) shown on the plans are to remain, do not remove them without the approval of the engineer and without contacting the property owner.

Follow the construction detail included on the plan for excavation in front of the utility poles located within 2-foot from back of proposed curb and gutter.

Pedestrian and vehicular access to Social Security Administration located at 4020 Durand Avenue, Racine, WI 53405 (northeast quadrant of Orchard Street and Durand Avenue intersection) must be maintained during business hours. Pedestrian can access Social Security Administration only from the entrance located at Durand Avenue, pedestrian access must be maintained from Durand Avenue.

Provide Concrete Pavement HES at locations designated on the plans.

4. Traffic.

General

Keep Durand Avenue (STH 11), on which this project is located, open to through vehicular traffic throughout the project length. Conduct construction operations in a manner that will cause the least interference to traffic movements, business, and residential access adjacent and within the construction areas.

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

Utilize flaggers, signs, barricades, and drums as may be necessary to safeguard and direct traffic at all locations where construction operations may interfere with or restrict the smooth flow of traffic.

Do not park or store equipment, vehicles or construction materials within the lateral clearance (2-feet from the face of curb) on any roadway carrying traffic during non-working hours except at locations and periods of time approved by the engineer.

Maintain emergency vehicular access at all times to all roadways located along Durand Avenue (STH 11).

Stage 1, 1A, 1B, and 1C:

Westbound Durand Avenue traffic will use the existing eastbound lane. Maintain one 11-foot travel lane in each direction from Kentucky Street to Drexel Avenue. Maintain one 11-foot travel lane in eastbound direction from Drexel Avenue to Kearney Avenue. Detour westbound Durand Avenue traffic as shown in the detour plans. Prior to closing westbound Durand Avenue from Kearney Avenue to Drexel Avenue implement the detour route as shown on the plans. Maintain local access on Durand Avenue at all times or as directed by the engineer.

Close to through traffic Kentucky Street, Russet Street, West Lawn Avenue, Arthur Avenue, Hayes Avenue, Taylor Avenue, West Boulevard, and Ashland Avenue north of Durand Avenue during Stage 1. Open to traffic all these Streets during Stage 1A and 1B except Taylor Avenue. Close Taylor Avenue during Stage 1B.

Stage construction operations at Lathrop Avenue and Drexel Avenue intersections to maintain all movements on a paved surface.

Move westbound traffic to westbound lanes west of Kentucky Street.

Detour Taylor Avenue during Stage 1 as shown in the Taylor Avenue detour plan. Prior to closing Taylor Avenue implement the detour route as shown on the plans. Maintain local access on Taylor Avenue at all times or as directed by the engineer.

Construct pavement, curb and gutter, sidewalk, street lighting, and storm sewer laterals and structures on westbound side of Durand Avenue from Kentucky Street to Kearney Avenue.

Construct any median side curb and gutters that will not conflict with traffic control in Stage 2 and 3.

Detour pedestrians as shown on the pedestrian detour plan. Maintain pedestrian accommodation on one side of Durand Avenue at all times.

Sequence side road construction as described below or as approved by the engineer.

Stage 1: Construct Kentucky Street, Russet Street, West Lawn Avenue, Arthur Avenue, Hayes Avenue, Taylor Avenue, West Boulevard, and Ashland Avenue north of Durand Avenue. Construct sidewalk along Kentucky Street one side at a time to maintain pedestrian access along Kentucky Street at all times.

Stage 1A: Construct Orchard Street, east half of Lathrop Avenue, Cleveland Avenue, Blaine Avenue, Taylor Avenue, east half of Drexel Avenue, and Kearney Avenue north of Durand Avenue.

Stage 1B: Construct temporary pavement on Durand Avenue at Lathrop Avenue intersection.

Stage 1C: Construct center portion of Durand Avenue and Lathrop Avenue intersection.

Stage 2 and 2A:

Move eastbound Durand Avenue traffic to new pavement on westbound side of Durand Avenue. Maintain one 11-foot travel lane in each direction from Kentucky Street to Kearney Avenue.

Close to through traffic Kentucky Street, west half of Lathrop Avenue, Taylor Avenue, west half of Drexel Avenue, Carpenter Avenue, and Hamlin Avenue south of Durand Avenue during Stage 2. Open to traffic all these streets during Stage 2A.

Stage construction operations at Lathrop Avenue and Drexel Avenue intersections to maintain all movements on a paved surface.

Move eastbound traffic to eastbound lanes east of Kearney Avenue.

Detour Taylor Avenue during Stage 2 as shown in the Taylor Avenue detour plan. Prior to closing Taylor Avenue implement the detour route as shown on the plans. Maintain local access on Taylor Avenue at all times or as directed by the engineer.

Construct pavement, curb and gutter, sidewalk, street lighting, and storm sewer laterals and structures on eastbound side of Durand Avenue from Kentucky Street to Kearney Avenue.

Construct any median side curb and gutters that will not conflict with traffic control in during Stage 3.

Maintain pedestrian accommodations on one side of Durand Avenue at all times.

Follow the following construction sequence for side street construction or as approved by the engineer:

Stage 2: Construct Kentucky Street, west half of Lathrop Avenue, Taylor Avenue, west half of Drexel Avenue, Carpenter Avenue, and Hamlin Avenue south of Durand Avenue during Stage 2.

Stage 2A: Construct Orchard Street, east half of Lathrop Avenue, Wheelock Drive, Elm Lane, east half of Drexel Avenue, Gates Street, and Kearney Avenue south of Durand Avenue.

Stage 3:

Move eastbound Durand Avenue traffic to new pavement on eastbound side of Durand Avenue. Maintain one travel lane in each direction from Kentucky Street to Kearney Avenue.

Stage construction operations at Lathrop Avenue and Drexel Avenue intersections to maintain all movements on a paved surface.

Construct pavement, curb and gutter, sidewalk, street lighting, and storm sewer laterals and structures within median area along Durand Avenue.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

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

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

stp-105-001 (20140630)

6. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying Durand Avenue (STH 11), and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 22, 2020 to 6:00 AM Tuesday, May 26, 2020 for Memorial Day;
- From noon Thursday, July 2, 2020 to 6:00 AM Monday, July 6, 2020 for Independence Day;
- From noon Friday, September 4, 2020 to 6:00 AM Tuesday, September 8, 2020 for Labor Day;
- From noon Wednesday, November 25, 2020 to 6:00 AM Monday, November 30, 2020 for Thanksgiving;
- From noon Wednesday, December 23, 2020 to 6:00 AM Monday, January 4, 2021 for Christmas and New Year's Day.

stp-107-005 (20181119)

7. Utilities.

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

stp-107-065 (20080501)

There are underground or overhead utility facilities within 3-foot from back of proposed concrete curb and gutter.

Additional information regarding recently relocated utility facilities may be available on permits issued to the utility companies. These permits can be viewed at the Wisconsin Department of Transportation Office-Waukesha during normal working hours. Contact the Utility Coordinator Rabi Bista at (262) 548-5690 for further information.

Underground and overhead utility facilities are located within the project limits. Utility adjustments are required for this construction project as noted below. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

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

Contact each utility company listed in the plans, prior to preparing bids, to obtain current information on the status of existing and any new utility relocation work.

Known utilities in the project are as follows:

AT&T Wisconsin has underground communication facilities parallel and across STH 11 within the project limits in the following locations:

AT&T will need to relocate the existing underground duct package running below Durand Avenue prior to construction. The existing AT&T duct will be exposed and lowered/raised/shifted in place to avoid conflicts with proposed drainage structures and pipes. The expose and raise/lower/shift are listed below with approximate stationing:

- Station 76+75 - Station 78+15 - Expose 130 feet of existing duct and raise 15 inches in place. These ducts are transite and will need to be treated for asbestos removal.
- Station 83+50 - Station 84+25 - Expose 80 feet of existing duct and lower 12 inches in place. These ducts are transite and will need to be treated for asbestos removal.
- Station 87+75 - Station 91+00 - Expose 300 feet of existing duct and shift 36 inches south.
- Station 93+20 - Station 94+50 - Expose 120 feet of existing duct and shift 24 inches south.
- Station 96+50 - Station 98+75 - Expose 120 feet of existing duct and shift 24 inches south.
- Station 99+50 - Station 102+00 - Expose 220 feet of existing duct and shift 36 inches south.
- Station 103+50 - Station 104+25 - Expose 60 feet of existing duct and lower 15 inches in place.
- Station 104+50 - Station 105+00 - Expose 40 feet of existing duct and raise 6 inches in place.
- Station 106+25 - Station 107+50 - Expose 120 feet of existing duct and shift 36 inches south.
- Station 111+75 - Station 112+50 - Expose 40 feet of existing duct and raise 6 inches in place.
- Station 108+25 - Station 109+50 - Expose 130 feet of existing duct and lower 12 inches in place.

Similarly, there are nine (9) AT&T manholes that will need frame and cover adjustments to tie into the existing grade. Some of these manholes will need additional work to remove the lids/ducts out of conflict, with this additional work noted below. Frame and cover adjustments will need to be completed after the proposed roadway is installed in order to tie into the final grade of the road, while other work will be completed prior to proposed roadway installation. The manholes are listed below, with additional details as required:

- Station 80+50, AT&T MH 1C03.
- Station 86+40, AT&T MH 1C04.
- Station 87+75, AT&T MH 1C05.
- Station 91+00, AT&T MH 1C06, walls of manhole slotted to accommodate shifted ducts.
- Station 95+50, AT&T MH 1C07 (both lids adjusted), roof of manhole rebuilt to move lids out of proposed curb.
- Station 104+25, AT&T MH 1C70, frame and cover to be removed and manhole filled with flowable fill.
- Station 104+25, AT&T MH 1C08.
- Station 109+50, AT&T MH 1C09, northern wall of manhole to be moved 1.5 feet north to increase manhole size.
- Station 114+25, AT&T MH 1C10.
- Station 15+58, AT&T MH 3043, western wall of manhole to be moved 1.5 feet west to increase manhole size.
- Station 15+60, AT&T MH 3054.

Along with these manholes, the AT&T manholes 1C06, 1C07, and 1C09 are currently located in the proposed curb line. The sizes of these manholes are 12' x 6', 10' x 9', and 7' x 3', respectively. The roofs of these manholes will need to be rebuilt and the lid location will need to be moved in order to accommodate the proposed curb line. There will be sufficient room in the roofs of the manholes to move the lid out of conflict with the proposed curb.

There is an existing AT&T pedestal at the northwest corner of Durand Avenue and Orchard Street (Station 80+50). This pedestal will need to be relocated to the west, approximately 9.5 feet west to avoid conflicts with the proposed sidewalk.

There is an existing AT&T pedestal at the northwest corner of Durand Avenue and Russett Street (Station 83+90). This pedestal will need to be relocated to the north, approximately 50 feet north to avoid conflicts with the proposed sidewalk. To accommodate the relocation of these pedestals, a new copper cable will be installed on the north side of STH 11 behind the existing curb via directional bore between the two recently relocated pedestals.

At the intersection of Durand Avenue and Taylor Avenue, AT&T will be installing a new duct package between existing manholes 1C09 and 3043 for approximately 167 feet in order to avoid conflicts with proposed drainage and pavement (Station 13+80 - Station 15+50) via directional bore.

AT&T or the contractor selected by AT&T will complete the frame and cover adjustment during construction. Frame and cover adjustment are expected to take 14 days. AT&T will need at the minimum three business days' notice in order to coordinate with their contractor.

Field Contact: Scott Sokolowski, (414) 258-5239, ms4143@att.com

Charter Communications has overhead communication facilities within the project limits.

Relocation and adjustments of Charters' aerial facilities and risers will be constructed per We Energies Electric work plan.

Relocation of Charter's facilities will be completed prior to construction.

Field Contact: Neal Long, (414) 430-7189, Neal.Long@charter.com

City of Racine DPW has underground sanitary sewer facilities within the project in the following locations:

The Sanitary Manhole at Station 84+00 LT will be discontinued by a contractor selected by the City of Racine. This work will be completed during the winter of 2019/2020.

Sanitary Manhole located at Station 87+83 RT will be relocated approximately 15 feet to the north and the sanitary sewer main shall be routed to the interceptor to the east.

Field adjustments during construction will be completed by the City of Racine or the contractor selected by the City of Racine. Field adjustments are expected to take approximately 5 working days to complete.

Relocation of the Sanitary Manhole at Station 87+83/RT, this work will need to be done in conjunction with the road project due to the close vicinity of tow storm water inlets, traffic signal base and associated wiring. These facilities are to be replaced as part of the highway project.

Field Contact: Allen Boruch, (262) 636-9483, allen.boruch@cityofracine.org

Racine Water Works Commission has underground water facilities within the project in the following locations:

Water main relay Station 77+09 to 95+00 including related intersections. Valve pit at 88+05 to be discontinued as part of relay. Water main relay and valve pit discontinuation will be completed prior to construction.

Miscellaneous hydrant alterations (98+18, 101+55, 104+87, 140+73, 114+60) during construction.

Miscellaneous service box alterations (114+50 to 141+00) during construction.

Valve pits to be discontinued at 113+75, 123+35, 132+26, and 140+20 prior to construction.

Valve box grading adjustments during construction.

Miscellaneous hydrant and service box alterations to be performed once proposed curb line has been delineated in the field. Call (262) 636-9437 with 24 hours' notice to coordinate.

Call (262) 636-9437 with 24 hours' notice to coordinate valve box adjustments during paving operations.

Each hydrant alteration is expected to take approximately 4 hours and each service box alteration is expected to take approximately 1 hour.

Field Contact: Chad Regalia, (262) 497-4611, chad.regalia@cityofracine.org

Midwest Fiber (MWFN) has overhead communications facilities within the project limits in the following locations:

MWFN fiber facilities cross this construction corridor only at Lathrop Ave. This fiber is on WE Energies' poles, and WE Energies will transfer our existing facilities at the time of their construction. MWFN Project # 1701000-4.705.

MWFN is on one pole being relocated by WE Energies. WE Energies will transfer our facilities to the new pole at the time of their pole relocation. Additional work, by MDFN, is not anticipated after WE Energies completes the relocations of their facilities.

Field Contact: Cheri Grainger, (414) 459-3550, cgrainger@midwestfibernetworks.com

Racine Wastewater Utility has underground sanitary sewer facilities within the project limits along Durand Avenue, Blaine Avenue, Drexel Avenue, and Ashland Avenue. Relocation of their facilities is not anticipated.

Field Contact: Allen Boruch, (262) 636-9483, allen.boruch@cityofracine.org

WE Energies-Electric has underground and overhead electric facilities parallel and across STH 11 within the project limits in the following locations:

Relocations and adjustments of We Energies electric facilities will be constructed as indicated on the table below. As agreed during the meeting of 10/02/2017 at WisDOT Office, the road work excavation will be limited to 2 feet radius at each anchor and pole.

There are two manholes and various sections of underground concrete encased conduit packages. Excavation for proposed improvements is expected to be limited to 6-Inch to the top and 18-Inch to the sides of the manholes and conduit packages.

Highway stationing has been used where possible to locate existing and new facilities.

Facility	Station	Remain in Place		Remove		Install	
		Station	Offset	Station	Offset	Station	Offset
Anchor				83+61.4	44.6' RT	83+61.0	47' RT
Pole				83+70.8	45.5' RT	83+71.0	47' RT
Anchor				83+73.0	38.7' RT		
Pole		84+17.0	46.5' RT				
Anchor	LA			14+63.0	30.7' LT	14+46.0	36' LT
Pedestal	LA					14+74.5	42' LT
Pole	LA			14+95.0	30.6' LT	14+76.0	36' LT
Anchor	LA			14+95.0	46.3' LT	14+76.0	52' LT
Pole	LA	16+38.6	26.5' LT				
Anchor						89+14.0	33.5' LT
Pole				89+12.5	33.0' LT	89+30.0	33.8' LT
Anchor				90+41.0	33.6' LT	90+37.0	33.8' LT
Pole				90+50.0	33.5' LT	90+52.0	33.8' LT
Pole				91+34.0	32.6' LT	91+37.0	33.8' LT
Pole				92+66.0	32.0' LT	92+64.0	33.8' LT
Pole				92+73.5	28.0' RT		
Pole				93+89.5	32.3' LT	93+86.0	33.8' LT
Pole						94+89.0	33.8' LT
Pole				95+94.0	32.5' LT	95+97.0	33.8' LT
Pole				97+23.0	32' LT	96+98.0	33.8' LT
Pole				98+03.0	32' LT	98+07.0	33.8' LT
Pole				99+34.7	31.5' LT	99+33.5	36.8' LT
Pole				100+51.8	31.7' LT	100+39.0	36.8' LT
Pole				102+25.0	31.9' LT	101+72.0	36.8' LT
Pole				103+09.0	31.3' LT	103+09.0	36.8' LT
Pole				103+96.0	31.8' LT	103+95.0	36.8' LT
Pole				104+80.0	31.4' LT	104+83.0	36.8' LT
Pole				105+62.0	31.4' LT	105+63.0	36.8' LT
Pole				106+71.0	31.4' LT	106+69.0	36.8' LT
Pole				107+59.0	31.2' LT	107+59.0	37.3' LT
Pole				108+33.0	31.2' LT	108+42.0	38.0' LT
Pole				108+73.0	41.5' RT		
Pole				109+05.0	31.1' LT	109+27.0	39.0' LT
Pole				109+98.0	33.6' LT	110+04.0	40.0' LT
Pole	TA	15+42.0	24.8' RT				
Pole				110+48.0	24.5' RT	110+24.0	32.8' RT

Facility	Station	Remain in Place		Remove		Install	
		Station	Offset	Station	Offset	Station	Offset
Anchor						110+36.0	32.8’ RT
Pole				111+17.6	32.0’ LT	111+13.5	37.0’ LT
Pole				112+01.0	30.5’ LT	111+95.0	37.0’ LT
Pole		112+75.0	33.3’ RT				
Pole				112+77.0	29.5’ LT	112+74.5	37.0’ LT
Pole				113+69.0	36.8’ LT	113+69.0	41.5’ LT
Pole		113+74.0	37.2’ RT				
Pole				114+45.5	27.1’ LT	114+47.0	36.0’ LT
Pole		114+70.0	43.6’ RT				
Anchor		114+83.9	48.0’ RT				
Pole				115+58.0	27.8’ LT	115+19.0	33.0’ LT
Anchor				115+70.0	27.8’ LT	115+35.0	33.0’ LT
Pole	CA	51+19.0	22.2’ LT				
Anchor	CA	51+28.5	22.4’ LT				
Anchor		130+04.0	43.0’ RT				
Pole		130+19.0	42.5’ RT				
Anchor				131+83.5	32.5’ RT	131+81.0	29.5’ RT
Anchor				131+87.7	31.2’ RT	131+85.0	29.5’ RT
Pole		132+11.6	31.2’ RT				
Pole		132+29.0	31.5’ RT				
Anchor	AS	50+47.7	31.2’ LT				
Pole	AS	50+48.6	20.0’ LT				
Pole	AS	50+53.0	19.7’ RT				
Pole				133+17.6	28.0’ RT	133+21.0	29.0’ RT
Pole				134+27.9	28.0’ RT	134+33.0	29.0’ RT
Pole	HM			51+51.7	21.1’ RT	51+57.0	22.5’ RT
Pole				135+40.3	27.9’ RT	135+45.0	29.0’ RT
Pole				136+64.7	28.0’ RT	136+50.0	29.0’ RT
Pole				137+50.5	27.6’ RT	137+53.0	29.0’ RT
Pole				138+54.3	27.7’ RT	138+58.0	29.0’ RT
Pole		138+69.0	41.2’ RT				
Anchor				138+69.0	32.6’ RT	138+69.0	28.5’ RT
Pole				139+88.1	28.2’ RT	139+84.0	29.0’ RT
Pole				140+95.0	27.6’ RT	141+18.0	29.0’ RT

In addition to the listed facilities on the attached sheets, sections of underground cables will be discontinued and installed new as follows:

DISCONTINUED

- From Station 77+01, 43.4’ LT to Station 77+99, 45.6’ LT.
- From Station 51+43 KY, 28.0’ RT to Station 51+58 KY, 28.0’ RT.
- From Station 77+85, 42.0’ RT to Station 78+00, 42.0’ RT.
- From Station 80+30, 43.5’ LT to Station 85+53.5, 41.7’ LT.
- From Station 86+88, 45.0’ LT to Station 87+12, 48.0’ LT.
- From Station 15+97 LA, 37.0’ LT to Station 16+13 LA, 30.0’ LT.

INSTALLED NEW

- From Station, 77+01, 43.4’ LT to Station 77+04, 47.0’ LT to Station 77+96, 48.0’ LT to Station 77+99, 45.6’ LT.
- From Station 51+43 KY, 28.0’ RT to Station 78+00, 42.0’ RT.
- From Station 80+30, 43.5’ LT to Station 80+33, 45.5’ LT to Station 84+48, 47.0’ LT to Station 84+69, 44.0’ LT to Station 84+91, 40.5’ LT to Station 85+53.5, 41.7’ LT.
- From Station 86+88, 45.0’ LT to Station 16+13 LA, 30.0’ LT.

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

We Energies plans to relocate its facilities prior to the start of road construction, dependent on the conditions specified in section 5 of the work plan.

Manhole cover adjustments will be done during road construction. In order for We-Energies to make manhole cover adjustments, road contractor shall provide 14 days' notice and a 3-day reminder notice to inform that the site is ready by calling Paul Schilling at (414) 840-4712 or Joe Bagatta at (414) 254-3167. Cover adjustments will be completed within five working days by We-Energies Crews or a contractor designated by We-Energies.

Field Contact: Brenda Gunnink, (414) 944-5653, M: (608) 751-2563.

WE Energies-Gas has underground gas facilities parallel and across STH 11 within the project limits in the following locations:

Relocations and adjustments of We Energies facilities will be constructed as work requests: WR4130511 and WR4152041.

Highway stationing has been used where possible to locate new facilities.

On WR4130511, existing 10" ST Gas main will be replaced with 12" from Station 77+00 to Station 141+00 as follows:

- Starting at Station 77+00 RT29' and going east to Station 84+9 RT32.5', then turning south to Station 84+9 RT42'.
- Continue east from Station 84+9 RT 42' to Station 87+29 RT 42' to intersection with Lathrop Ave.
- Main will then go South and North on Lathrop to Station 14+25 LT 20.5' LA and Station 16+66 LT 21.5' LA.
- Continuing east at Station 87+29 RT 18' to Station 95+00 RT 16.5', then turning south to Station 95+6 RT 22.5'.
- From Station 95+6 RT 23' to Station 108+17 RT 22'.
- Crossing Taylor Ave from Station 108+17' RT 22' to Station 109+73 RT 18', then turning south to Station 109+73 RT 29'.
- Continuing east at Station 109+73 RT 29' to Station 115+36 RT 30'.
- Continuing east at Station 115+36 RT 30' to Station 141+00 RT 33.5', ending at Station 141+00 RT20.5'.

On WR4152041, existing 2", 3", and 4" Gas mains will be replaced from Station 77+00 to Station 141+00 as follows:

- Gas main on Kentucky Street will be relocated to Station 51+71 LT 27' KY going north to Station 53+6 LT 27' KY, then tying into existing gas main at Station 53+6 LT 11' KY. At Station 51+71 RT 19.5 KY going south to Station 51+24 RT 19.5' KY, tying into the existing gas main at Station 51+24 RT 26' KY.
- Gas Main will also go east at Station 50+53 LT 27' KY/Station 77+29 LT 53' extending to Station 79+18 LT 51.5' where it will turn north on Orchard Street at Station 80+58 LT 50.5'. On Orchard Street gas main will be relocated to Station 51+3 LT 25.5' OR, then tieing into existing gas main at Station 51+3 LT 11' OR. Crossing at Orchard Street intersection from North side to South side of Durand Ave will no longer be active and will be discontinued.
- Gas main on Russett Street will be relocated to Station 49+68 LT 27.5' RU to Station 51+3 LT 27.5' RU, then tying into existing gas main at Station 51+3 LT 17' RU.
- Gas main will be relocated on the North side of Durand Ave from Station 89+50 LT 38' to Station 104+2 LT 40.5', tying in to existing mains on West Lawn at Station 51+72 LT 11' WL, on Arthur Ave at Station 50+66 LT 20.5' AR and Station 50+70 RT 20.5' AR, and on Blaine Ave at Station 52+60 LT 25.5' WH.

- Gas main on North side of Durand Ave will connect to proposed main on South side of Durand Ave at Arthur Ave intersection at Station 100+31 RT 23.5'. Crossing at Blaine Avenue from North side to South side of Durand Ave will no longer be active and will be discontinued.
- Gas main on Wheelock Drive will be relocated to Station 51+77 RT 23.5' WH to Station 51+14.5 RT 23' WH, tying into existing gas main on Wheelock Drive at Station 51+14.5 RT 6' WH.
- Gas main will be relocated on the North side of Durand Ave from Station 104+2 LT 40.5' to Station 106+84 LT 40.5'.
- Gas main on Hayes Ave will be relocated to Station 49+76.5 LT 35.5' HY to Station 50+62 LT 35' HY, tying into existing gas main on Hayes Ave at Station 50+62 LT 20.5' HY.
- Gas main on Taylor Ave will be relocated to Station 13+82 RT 30.5' TA to Station 11+67 RT 31' TA, tying into existing gas main on Taylor Ave at Station 11+50 RT 26' TA. Also, from Station 14+27 LT 30.5' TA to Station 16+30.5 LT 32.5' TA tying into existing gas main on Taylor at Station 16+40 LT 27' TA.
- Gas main on S Elm Lane will be relocated to Station 49+73 RT 20' EL to Station 49+43 RT 19' EL, tying into existing gas main on S Elm Lane at Station 49+38.5 RT14.5' EL.
- Gas main on West Boulevard will be relocate to Station 9+71 RT 34.5' WB to Station 11+37 RT 35' WB, tying into the existing gas main on West Boulevard at Station 11+37 RT 22' WB and to the existing gas main on Durand Ave at Station 10+33 RT 39' WB.
- Gas main on Drexel Ave will be relocated to Station 13+56 LT 36.5' DX to Station 13+12 LT 36.5' DX, tying into the existing gas main on Drexel Ave at Station 13+12 LT 33' DX. Will also be relocated to Station 13+56 RT 23' DX to Station 14+74 RT 24' DX, tying into the existing gas main at Station 14+74 RT 20' DX and at Station 14+21 RT 24' DX.
- Gas main on Carpenter Ave will be reconnected at Station 127+61 RT 33.5'.
- Gas main on Hamlin Ave will be reconnected at Station 133+58 RT 34' and Station 51+26.5 LT 17.5' HM.
- Gas main on Kearney Ave will be relocated to Station 51+66.5 RT 20.5' B and Station 50+53 RT 27.5' A, tying into the existing gas main on Kearney Ave at Station 50+53 RT 23' A and to the existing gas main on Durand Ave at Station 140+22.5 LT 31' and Station 140+92 LT 31'.
- New Gas main on Kearney Ave will be installed from Station 51+66.5 RT 31' B to Station 50+34 RT 30' B, then tying into the existing gas main on Kearney at Station 50+22 RT 14' B.
- Additional new gas mains will be installed and connected to the proposed main from WR4130511 at Station 114+76 RT 30' and Station 119+85.5 RT 33'.

We Energies plans to relocate its facilities prior to construction and estimates 70 working days for WR4130511 and 30 working days for WR4152041.

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

Field Contact: Kelly Kempken (WR4130511), (414) 944-5571, M: (414) 944-5621 or Ronald Glendenning (WR4152041), (414) 507-8039, M: (414) 333-1556.

City of Racine has street lighting facilities within the project limits.

Street lights will be replaced as a part of the project.

Field Contact: John Rooney, (262) 636-9460

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

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office

by contacting Robert Bellin at (262) 521-4405. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

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

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Robert Bellin at (262) 521-4405.

stp-107-054 (20080901)

10. Erosion Control.

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

Supplement standard spec 107.20 with the following:

Provide the ECIP 14 calendar days prior to the pre-construction conference. Provide 1 copy of the ECIP to WisDOT and 1 copy of the ECIP to the WDNR Liaison (Kristina Betzold, 2300 N. Dr. Martin Luther King Jr. Dr., Milwaukee, WI 53212, Tel: (414) 263-8517, Email: Kristina.Betzold@Wisconsin.gov). Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-topsoiling to minimize the period of exposure to possible erosion. Do not implement the ECIP until it has been approved by the department.

Re-topsoil graded areas, as designated by the engineer, immediately after grading is completed within those areas. Seed, fertilizer, and mulch, as designated by the engineer, within 7 calendar days after placement of topsoil. If graded areas are left exposed for more than 14 calendar days, seed those areas with temporary seed and mulch.

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

Stockpile excess material or spoils on upland areas away from wetlands, floodplains and waterways. Stockpiled soil shall be protected against erosion. If stockpiled material is left for more than 14 calendar days, seed the stockpile with temporary seed and mulch.

Do not pump water from the construction site to a storm water conveyance without the water first passing through a sediment trap or filter bag.

11. Notice to Contractor – RYDE (Racine Transit) Coordination.

The City of Racine's RYDE transit service operates the following bus routes within the construction limits: Route 7 travels on Durand Avenue within the entire project length, Route 2 crosses Durand Avenue at Drexel Avenue intersection, and Route 86 travels on Durand Avenue from Kentucky Street to Lathrop Avenue. RYDE will detour WB Route 7 and Route 86 during stage 1 and EB Route 7 and Route 86 in stage 2. EB Route 7 and Route 86 during stage 1 and WB Route 7 and Route 86 during stage 2 will stay on Durand Avenue. Existing Route 7 stops within the construction limits will be consolidated to 4 stops during construction. Notify RYDE at least 10 business days prior to beginning the work. The contractor shall manage bus stop signs and shelters during construction. The RYDE will manage its bus stop signs on the detour route.

Invite RYDE to all coordination meetings between the contractor, the department, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations.

Contact Information:

Willie E. McDonald
General Manager
RYDE
1900 Kentucky Street
Racine, WI 53403
Phone: (262) 619-2443
Willie.McDonald@cityofracine.org

12. Notice to Contractor - Sign Removal.

Contact Ara Molitor, City of Racine, at (262) 636-9487 at least five working days prior to the removal of existing signs within the project corridor.

The department assumes that all signs are in good condition prior to the contractor's removal operation. Prior to removal, inspect and provide a list of any damaged signs to the engineer.

Deliver removed signs to 1415 Hampden Place, Racine WI 53403. Contact Ara Molitor, City of Racine, at (262) 636-9487 at least five working days prior to delivery to make arrangements.

13. Health and Safety Requirements for Workers Remediating Petroleum Contamination.

Add the following to standard spec 107.1(2):

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

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

Develop, delineate, and enforce the health and safety exclusions zones for each contaminated site location pursuant to 29 CFR 1910.120.

stp-107-115 (20150630)

14. Coordination with Businesses and Residents.

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

stp-108-060 (20141107)

15. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 8:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.

stp-107-001 (20060512)

16. Removing Street Light Poles, Item 204.9060.S.01.

A Description

This special provision describes removing street light poles conforming to standard spec 204 and as hereinafter provided.

B (Vacant)

C (Vacant)

Contact Ara Molitor, City of Racine, at (262) 636-9487 and John Dirkintis, City of Racine, at (262) 770-9588 at least seven working days prior to the removal of the street light poles along Durand Avenue. The city may want to salvage the poles and fixtures. Deliver poles that the city would like to salvage to 1415 Hampden Place, Racine WI 53403. Contact Ara Molitor, City of Racine, at (262) 636-9487 at least five working days prior to delivery to make arrangements for delivery.

D Measurement

The department will measure Removing Street Light Poles as each individual pole, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Street Light Poles	EACH

stp-204-025 (20150630)

17. Removing Sanitary Sewer Manholes, Item 204.9060.S.02.

A Description

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

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Sanitary Sewer Manhole as each individual manhole acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.02	Removing Sanitary Sewer Manhole	EACH

stp-204-025 (20150630)

18. Removing Sanitary Sewer 10-Inch, Item 204.9090.S.01.

A Description

This special provision describes removing 10-Inch sanitary sewer according to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Sanitary Sewer 10-Inch in length by the linear foot, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Sanitary Sewer 10-Inch	LF

stp-204-025 (20150630)

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

A Description

A.1 General

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

Republic Services Kestrel Hawk Landfill
1989 Oakes Rd.
Racine, WI 53406
(262) 884-7081

Waste Management Pheasant Run RDF Landfill
10712 South 124th Street
Bristol, WI 53104
(800) 963-4776

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI53150
(414) 529-1360

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

A.2 Notice to the Contractor – Contaminated Soil Location(s)

The department completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following location(s) as shown on the plans:

1. Station 85+40 to 86+50 from reference line to project limits left, from approximately 1 to 8+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 283 cubic yards (approximately 48l tons using a conversion factor of 1.7 tons per cubic yard).

2. Station 86+50 to 87+50 from reference line to project limits left, from approximately 8 to 16+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 0 cubic yards (approximately 0 tons using a conversion factor of 1.7 tons per cubic yard).

3. Station 86+50 to 87+50 from reference line to project limits right, from approximately 4 to 16+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 5 cubic yards (approximately 9 tons using a conversion factor of 1.7 tons per cubic yard).

4. Station 105+00 to 105+80 from project limits left to project limits right, from approximately 1 to 6+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 411 cubic yards (approximately 699 tons using a conversion factor of 1.7 tons per cubic yard).

5. Station 113+40 to 114+10 from reference line to 70 feet left of reference line, from approximately 1 to 6+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 317 cubic yards (approximately 539 tons using a conversion factor of 1.7 tons per cubic yard).

6. Station 114+00 to 115+00 from reference line to project limits right, from approximately 4 to 8+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is 0 cubic yards (approximately 0 tons using a conversion factor of 1.7 tons per cubic yard).

If contaminated soils are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer.

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

Name:	Andrew Malsom
Address:	141 NW Barstow Street PO Box 798 Waukesha, WI 53187-0798
Phone:	(262) 548-6705
Fax:	(262) 548-6891
E-mail:	andrew.malsom@dot.wi.gov

A.3 Coordination

Coordinate work under this contract with the environment consultant:

Consultant:	TRC Environmental Corporation
Address:	150 N. Patrick Blvd., Ste. 180, Brookfield, WI 53045
Contact:	Bryan Bergmann
Phone:	(262) 901-2126 office, (262) 227-9210 cell
Fax:	(262) 879-1220
E-mail:	bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;

2. Identifying contaminated soils to be hauled to the bioremediation facility;

3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and

4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in each of the contaminated areas.

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

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

A.4 Health and Safety Requirements

Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Add the following to standard spec 205.3:

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

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul soils designated by the environmental consultant for offsite bioremediation to the DNR approved bioremediation facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site bioremediation so as not to contain free liquids.

D Measurement

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

E Payment

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

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

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

stp-205-003 (20150630)

20. Maintaining Drainage.

Maintain drainage at and through worksite during construction according to standard spec 107.22, 204, 205 and 520.

Use existing storm sewer, temporary inlets, temporary storm sewer pipe, concrete collar, existing drainage channels, or temporary drainage channels or as directed by the engineer to maintain existing surface and pipe drainage. The cost of all work and materials associated is incidental to the work to maintain drainage, including, but not limited to: temporary pipe, concrete collar, and temporary inlet installation and removal.

Pumps may be required to drain the surface, pipe, and structure discharges during construction. Costs for furnishing, operating, and maintaining the pump is considered incidental to the project.

Dewatering (Mechanical Pumping) for Bypass Water (sediment-free) Operations

If dewatering bypass operations are required from one pipe structure to another downstream pipe structure or from the upstream to downstream end of a culvert and the bypass flow is not transporting sediments (sand, silt, and clay particles) from a tributary work site area, bypass pumping operations will be allowed provided that the department has been made aware of and approves operation. When pumping bypass flows, the discharge location will need to be stable and not produce any erosion from the discharge velocity that would cause release of sediment downstream.

Dewatering (Mechanical Pumping) for treatment Water (sediment-laden) Operations

If dewatering operations require pumping of water containing sediments (sand, silt, and clay particles), the discharge will not be allowed to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Refer to article Erosion Control in these special provisions for additional requirements.

21. QMP Base Aggregate Dense 1 1/4-Inch Compaction, Item 371.1000.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.

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

(4) This special provision applies to Base Aggregate Dense 1 1/4-Inch material placed on the mainline traveled way and adjacent mainline shoulders according to the typical finished sections. Unless otherwise specified by the contract, all Base Aggregate Dense 1 1/4-Inch material placed on side roads, private and public entrances, ramps, tapers, turn lanes, and other locations not described as the mainline traveled way and its adjacent mainline shoulders is 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 in accordance with applicable provisions of the standard specifications.

Add the following to standard spec 305.3.2.2:

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

(4) The material target density will be identified using one of the following methods:

1. For 1 1/4-Inch dense graded base composed of ≤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: maximum dry density in accordance with AASHTO T-180, Method D, with correction for coarse particles as determined by AASHTO T224, and modified to require determination of Bulk Specific Gravity (Gm) in accordance with AASHTO T 85. Bulk Specific Gravities determined in accordance with standard spec 106.3.4.2.2 for aggregate source approval may be utilized
2. 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:
    2.1. Maximum dry density as determined by AASHTO T-180, Method D, with correction for coarse particles as determined by AASHTO T224 and modified to require determination of Bulk Specific Gravity (G_m) in accordance with AASHTO T 85.
    2.2. 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 as determined by AASHTO T224, and modified to require determination of Bulk Specific Gravity (G_m) in accordance with AASHTO T 85.
    2.3. Average of 10 random control strip wet density measurements as described in section C.2.5.1.

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

(6) Field density tests on materials using contractor elected target density methods C.1(4).2.2 or C.1(4).2.3 will not be considered for lot acceptance on the basis of compaction under the requirements of this provisions 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.

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. A summary of the locations and calculated quantities to be tested under this provision.
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.2.2 Pre-Placement Meeting

A minimum of two weeks before the start of 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.2.3 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.

(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.2.4 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:

http://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 ASTM D 6938 and CMM 8.15 for wet density testing and gauge monitoring methods.

(5) For the specified target density determined using method C.1(4).1, compute the dry densities for the compacted dense graded base, composed of ≤20% RAP or RCA, according to ASTM D 6938.

(6) For contractor elected target density method C.1(4).2.1 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 9000 tons 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 on the same date of placement of the Base Aggregate Dense 1 1/4-Inch material. 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 4 minutes 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. Do not test less than 1 ½ feet from the unsupported edge of the dense graded base layer. Test sites must be located within the mainline traveled way or the traveled way's adjacent mainline shoulder.

C.2.5.1 Contractor Required Quality Control (QC) Testing

(1) Conduct testing at a minimum frequency of one test per lot. A lot will consist of each 1500 tons for each layer with a minimum lift thickness of 2" of Base Aggregate Dense 1 1/4-Inch material placed, regardless of the location of placement. Each lot of in-place mainline, as defined by A.(4), Base Aggregate Dense 1 1/4-Inch material compacted will be accepted when the lot field density meets the required minimum 93.0% of target density. Lots that don't achieve 93.0% of target density must be addressed and approved in accordance with C.2.7.

(2) Notify the engineer, if a lot field density test falls below the required minimum value. Document and perform corrective actions in accordance with 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.2.5.1.1.1 Density Control Strip Method

(1) For contractor elected target density method C.1(4).2.3, 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.

(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 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 construct the control strip. A previously determined Proctor value 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. 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. A previously determined Proctor value will remain valid for any material with gradation for all sieves within 10.0 percentage points of that Proctor's original gradation test.
4. The layer thickness changes more than 2.0 inches.
5. 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, at least 1 ½ feet from the edge of the base. Subsequent density measurements will be taken at the same 3 locations.

(7) After each subsequent pass of compaction equipment over the entirety of the control strip, take density measurements at the 3 marked locations. Continue compacting and testing until the increase in density measurements is 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 density measurements within the limits of the control strip, at least 1 ½ feet from the edge of the base. The final measurements recorded at the 3 locations under article C.2.4.1.1.1(6) 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 C.1(4).2.3.

C.2.5.1.1.2 Maximum Wet and/or Dry Density Methods

(1) For contractor elected target density methods C.1(4).2.1, C.1(4).2.2, and contractually specified target density method C.1(4).1; perform one gradation and 5-point Proctor test before placement of 1 1/4-Inch dense graded base. Perform additional gradations every 3000 tons. 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. 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. A previously determined Proctor value will remain valid for any material with gradation for all sieves within 10.0 percentage points of that Proctor's original gradation test
4. Percent target density exceeds 103.0% on two consecutive density tests.

(3) Provide Proctor test results to the engineer within 48 hours of sampling. Provide gradation test results to the engineer within 24 hours 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.2.5.2 Optional Contractor Assurance (CA) Testing

(1) CA Testing is optional and is conducted to further validate QC testing. The contractor may submit recorded CA data to provide additional information for the following:

1. Process control decisions
2. Troubleshooting possible sampling, splitting, or equipment problems.

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.

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 30% 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 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. The department will split each QV sample, test half for QV, and retain the remaining half for 7 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 C.1.(3).2.3 target density method 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 in accordance with 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) Independence assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing, including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

1. Split sample testing.
2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. 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 93.0% of target density may be addressed and accepted for compaction in accordance with the requirements of this section. Unless otherwise stated, the actions taken to address an unacceptable lot must be applied to the entire lot.

> Passing CA test results in accordance with section C.2.5.2 will reduce the limits of lot investigations and/or corrective actions.

(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 in accordance with 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 C.1(4).1, C.1(4).2.1, or C.1(4).2.2, or within 2.0 percentage points of the target moisture content for target density method C.1(4).2.3, 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 C.1(4).1, C.1 (4).2.1, or C.1(4).2.2, or within 2.0 percentage points of the target moisture content for target density method C.1 (4).2.3, 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 93.0% of target density the lot is accepted as satisfying the compaction requirements of this provision. If the lot field density fails to achieve 93.0% of target density, 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 C.1(4).1, C.1(4).2.1, or C.1(4).2.2 ; or in excess of 2.0 percentage points above or below the target moisture content for target density method C.1(4).2.3; 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 93.0% of target density is achieved or an alternate compaction acceptance criteria is met in accordance with this section.

(7) Field moisture contents of materials tested using contractor elected target density methods C.1(4).2.2 or C.1(4).2.3 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 C.1(4).2.2 or C.1(4).2.3 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 QMP Base Aggregate Dense 1 1/4-Inch Compaction by the ton, acceptably completed. The measured tons of QMP Base Aggregate Dense 1 1/4-Inch Compaction equals the tons of Base Aggregate Dense 1 1/4-Inch, acceptably completed, regardless of placement location and density testing eligibility.

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
371.1000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	TON

(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.

stp-370-010 (20171130)

22. Stamping Colored Concrete, Item 405.1000.

This special provision describes stamping and coloring concrete Custom Red for 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 Custom Red: Follow color pigment manufacturer's recommendations for minimum and maximum percentage of loading by weight of the cementitious material in the mix. Match the concrete color in reasonably close conformance with Custom Red color, which is similar to Federal Standard 595 - 30152.

Replace standard spec 405.2.1.1(3) with the following:

(3) The department will accept the color based on comparison to the final and accepted color sample of the test slab produced by conforming to all requirements under standard spec 405.2.1.4.3 for Trial Batches.

Replace the entire contents of standard spec 405.2.2 with the following:

(1) Furnish Custom Red full-depth colored concrete conforming to standard spec 405.2.1.

(2) Running Bond Used Brick, #5018 by Customrock Formliner. Pattern shall exactly match the pattern and stamp that has been used in the Ohio Street medians within the City of Racine limits (i.e. between Wright Street and 13th Street). Provide sample formliner pattern to engineer for approval and to verify conformance with the existing stamped medians before use on the project.

(3) Provide antiquing release agent that is compatible with the form liner and coloring materials. The antiquing release agent color shall be red brown and shall closely match to Federal Standard 595 – 30108. Provide manufacturer's color chart for antiquing release agent to engineer for approval before use on the project.

(4) Provide concrete sealants that are compatible with the formliner and installation methods. Prime Sealant: Glossy. Secondary Sealant: Matte.

Replace the entire contents of standard spec 405.3.2 with the following:

(1) Color concrete full-depth conforming to standard spec 405.3.1.

(2) Coordinate locations of permanent signage requiring PVC pipe box outs per standard spec 634.3.2.

(3) Clean the form liner prior to each pour and ensure that it is free of any build-up. Visually inspect each liner for blemishes or tears and repair, if necessary, per manufacturer's recommendations. Coordinate with the engineer to verify stamping pattern orientation prior to starting the stamping work.

(4) Prepare stamp tools with a full, smooth coat of antiquing release agent. While concrete is still in the plastic state, apply imprinting tools to the surface and press into the concrete to create the desired impression. Finish all surfaces uniformly. Ensure that the textured surface is free of laitance; sandblasting is not permitted. Grind or fill any blemishes.

(5) Shake or spray antiquing release agent over concrete surface. Hand apply antiquing release agent to each individual joint line by spraying or rolling. Stamping and finishing shall exactly match the work that has been done on the Ohio Street Medians in other locations within the City of Racine.

(6) Allow concrete to cure for 5 days after application of the antiquing release agents and stamp pattern. Pressure wash concrete surface to remove approximately 80% of the antiquing release agent. Ensure that concrete is clean and dry before proceeding with concrete sealant. Spray or roll on a single layer of gloss sealant. Follow by spraying on a single coat of matte finish sealer. Do not roll matte finish sealer onto concrete surfaces.

(7) Protect the stamped and colored concrete sidewalks from damage. Do not permit construction traffic or material storage on colored concrete. Exclude other foot traffic from colored concrete for at least 15 days after placement. Remove and replace adjacent concrete that is discolored to the approval of the engineer.

23. Concrete Pavement Joint Layout, Item 415.5110.S.

A Description

This special provision describes providing a concrete pavement or concrete base joint layout design for intersections and marking the location of joints in the field.

B (Vacant)

C Construction

Plan and locate all points necessary to establish the horizontal position of the transverse and longitudinal joints in the concrete to prevent uncontrolled cracking. Submit a joint layout design to the engineer at least 7 calendar days before paving each intersection. Do not lay out joints until the engineer has

reviewed the joint layout design. Mark the location of concrete joints in the field. Follow the plan details for joints in concrete making adjustments as required to fit field conditions.

D Measurement

The department will measure Concrete Pavement Joint Layout as a single lump sum unit for all joint layout designs and marking, 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
415.5110.S	Concrete Pavement Joint Layout	LS

Payment is full compensation for providing the intersection joint layout designs and marking all joints in the field.

The department will adjust pay for crack repairs as specified in standard spec 415.5.3.

stp-415-020 (20170615)

24. Adjusting Manhole Covers.

This special provision describes adjusting manhole covers conforming to standard spec 611, as shown on the plans, and hereinafter provided.

Adjust manhole covers located in pavement areas in two separate operations. Initially, remove designated manhole covers along with sufficient pavement to permit installation of temporary cover plate over the opening. Fill the excavated area with asphaltic pavement mixture, which shall remain in place until contract milling and paving operations permit setting the manhole frames to grade. During the second phase, remove the asphaltic pavement mixture surrounding the manhole plus the temporary cover plate, and set the manhole cover to final grade. The department will measure and pay for the items of asphaltic pavement mixture, temporary cover plate, milling, and paving separately.

Revise standard spec 611.3.7 by deleting the last paragraph.

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 (20030820)

25. Furnishing and Planting Plant Materials.

Supplement standard spec 632.2.1 with the following:

Ensure all plants are grown within the states of Wisconsin, Minnesota, Michigan, or parts of northern Illinois, Indiana or Ohio located within Zone 5 of the “Plant Hardiness Zone Map” produced by the United States Department of Agriculture, Miscellaneous Publication No. 1475, issued January 1990, unless otherwise approved by the engineer.

Replace standard spec 632.2.2.8 (1) with the following:

Furnish a list of the sources from which plant materials will be obtained to the engineer. Furnish the list within 15 days of the award of the contract for fall-planted plants and before March 15 for spring-planted plants. Do not alter these lists without the engineer's approval.

Supplement standard spec 632.2.3.3 with the following:

The engineer reserves the right to reject topsoil that does not conform to the specifications and/or does not come with the appropriate material certificates. The engineer may require samples for USDA soil texture classification, pH, % organic matter, nutrient content, caution exchange capacity, soluble salts, and the presence of any materials deleterious to plant growth. Provide testing through a qualified testing laboratory approved by the State of Wisconsin to confirm that topsoil meets the requirements outlined in standard spec 632.2.3.3.

Replace standard spec 632.2.4.2 with the following:

For fertilizer in plant holes, provide water soluble fertilizer contained in a micropore slow release polyethylene packet with a three-year release. Provide packets with two ounces of fertilizer. A single two ounce packet is considered one unit. Fertilizer shall conform to the following minimum requirements:

Nitrogen, not less than ----- 16%

Phosphoric Acid, not less than ----- 8%

Potash, not less than -----8%

For trees: Use a minimum of two units and provide two units per caliper inch of tree trunk diameter. For one-half caliper measurements, round up to the next unit.

Replace standard spec 632.2.6 with the following:

Provide mulch as specified by bid item Shredded Hardwood Bark Mulch.

Replace standard spec 632.2.7 with the following:

Do not use wrapping on plant material.

Replace standard spec 632.2.9 with the following:

Provide rodent protection for trees designated on plans and as directed by the engineer.

Provide rodent protection for single-stem trees of rigid plastic mesh made of recycled HDPE with an open mesh matrix ¾" by ¾" with each strand approximately 1/8" x 1/8" x 1/8". Provide products that are UV treated with a life expectancy of up to five years. The product shall be at least 48 inches high. Supply the source of rodent protection to the engineer. Install rodent protection for single-stem trees according to manufacturer's written instructions and at a minimum, burying the bottom of the rodent protection 2-3 inches into the adjacent soil grades.

Provide rodent protection for multi-stemmed trees of chicken wire or other similarly rigid, matrix-material with an open mesh matrix ¾" by ¾" or less, 48 inches high. Install rodent protection for multi-stemmed trees such that the entire base of the tree is protected; circumference of rodent protection may vary based on specific characteristics of each tree. Bury the bottom 2-3 inches of the rodent protection into the adjacent soil grades.

Replace standard spec 632.2.10 with the following:

Use 18-inch soft polymer webbing strap with grommets at each of the two ends to secure wire or twine to tree. Supply source of webbing straps to the engineer. All sources will be subject to verification and approval by the engineer.

Provide tree stabilization (staking and guying) for all trees unless directed otherwise by the engineer or the City of Racine Forestry Department.

Supplement standard spec 632.3.1 (1) with the following:

The normal spring planting season for all plants extends to June 15. The normal fall planting season is September 15 to November 15 or until the ground is frozen. Complete the planting of evergreen trees and shrubs in the fall prior to October 15. Obtain approval from the engineer for any plantings between June 15 and September 15. All additional care and maintenance associated with approved plantings occurring within this timeframe, will be at no cost to the department including, but not limited to, supplemental watering above and beyond the typical, specified landscape maintenance and care cycle schedule.

Supplement standard spec 632.3.1 with the following:

Take care not to damage or disturb adjacent finished landscape and be responsible for repairing any and all damage caused to adjacent landscape materials. Repairs shall be at the contractor's expense.

Replace standard spec 632.3.3 with the following:

Stake the locations of all plant holes and obtain approval of staked location from the engineer before planting.

Supplement standard spec 632.3.4 with the following:

Adequately compact the bottom of the hole to guard against settling. Tamp or water as necessary to create a condition by which plants will not settle in the planting holes. The bottom of the rootball shall be in direct contact with the bottom of the hole.

Replace standard spec 632.3.4 (2) with the following:

Excavate the plant hole to the minimum horizontal dimensions indicated in the Plant Data Table included in the plans or as the engineer directs. The minimum horizontal measurement of the plant hole is to be no less than 24 inches greater than the diameter of the ball, container, or root mass for the full depth of the planting hole for trees.

Replace standard spec 632.3.7 (2) with the following:

Place the plant in the plant hole with its more desirable face towards the most prominent view and hold in a vertical position. Remove the burlap and other wrapping materials including, but not limited to, twine, wire baskets, and plastic ribbon, from the entire root ball of B&B plants unless the engineer determines that removal of said material will be detrimental to plant stability and/or establishment. At a minimum, the wire basket must be completely removed from the top and sides of the rootball. Move and handle only by the ball or container. Set the plant so that, after settling, the plant root collar is at or 2 inches above the surrounding ground level, as specified above in 632.3.4.

Supplement standard spec 632.3.18.1.2 with the following:

The plant establishment period begins on the date of substantial landscape completion. The plant establishment period ends one year from the substantial landscape completion date. Obtain, in writing, the final date for the conclusion of the plant establishment period on or soon after project completion. Review all plant materials with the engineer at conclusion of the establishment period.

Replace standard spec 632.3.19.1 (9) with the following:

Remove all staking, bracing wire material, nursery tags and other plant stabilization or non-biodegradable material at the end of each growing season within the establishment period.

Review all rodent protection measures at the end of each growing season within the establishment period with the engineer and City of Racine Forestry Department.

Supplement standard spec 632.3.19.1(2) with the following:

The interval for a care cycle is 10-14 days between May 15 and October 15. There will be 13 required care cycles in a growing season.

Perform a complete and thorough spring clean-out of all landscape areas within the project boundary. Perform spring clean-out during the first care cycle of the year (between May 15 and June 1) or as soon as weather and growing season conditions permit. Do not perform spring clean-out until the ground is no longer saturated from the spring thaw; walking on saturated soil will result in compaction. Spring clean-out removing any material damaged over the winter by pruning according to the language outlined in standard spec 632, removal of trash or other debris that has accumulated in project landscaped areas, removal of leaves or other plant debris that has accumulated on the top of the mulched surface, weeding, and any and all other clean-out and maintenance operations as directed by the engineer.

Perform a complete and thorough fall clean-out of all landscape areas within the project boundary. Perform fall clean-out during the last care cycle of the year (between October 1 and October 15). Do not perform fall clean-out if the soil is saturated from rain event; wait until the soil moisture levels have gone down before performing the final clean-out. Fall clean-out includes removing any material damaged during the growing season by pruning according to the language outlined in standard spec 632, removal of trash or other debris that has accumulated in landscaped areas, removal of leaves or other plant debris that has accumulated on the top of the mulched surface, weeding, and any and all other clean-out and maintenance operations as directed by the engineer.

Provide supplemental water during the May 15 and October 15 maintenance period as often as necessary to ensure healthy, growing, and established plant material. Coordinate supplemental water directly with the municipality so the plant material is not being overwatered or under-watered. The contractor will remain solely responsible for plant health and watering maintenance.

Apply an additional 1-2 inches of Shredded Hardwood Bark Mulch immediately prior to the end of the establishment period for tree rings and plant beds. Labor and materials are incidental to Landscape Planting Surveillance and Care Cycles bid item.

26. Landscape Planting Surveillance and Care Cycles.

If the landscape contractor 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 $1000 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.

27. Field Facilities

Provide field facilities for 60 calendar days beyond the project completion date or until the engineer approves its closure or removal.

Replace standard spec 642.2.1(2) with the following:

Provide high-speed internet and voice with long distance communications services via a land line for exclusive department use that have the following:

- A dynamic IP address (DHCP).
- The high-speed Internet connection must consist of a “small office/home networking” package.
- Ability to accommodate IPSec based VPN products.
- A modem router with a capacity for 10 or more personal computers.
- A connection speed of 1 Mbps or more with 5 computers operating simultaneously.

Provide and install into the field office 2 two-line programmable touch-tone telephones and telephone exchanges with local and long distance service. At least one will be a cordless type operating at no less than 2.4 GHz. Configure voice exchanges so that incoming calls for any voice exchange utilize an open exchange. Furnish a voicemail answering service. The telephones and communication services are for the sole use of the department staff.

28. Temporary Pedestrian Surface Asphalt, Item 644.1410.S.

A Description

This special provision describes providing, maintaining, and removing temporary pedestrian surface.

B Materials

Furnish 1 1/4-inch dense graded aggregate conforming to standard spec 305.2. Furnish:

- Asphaltic surface conforming to standard spec 465.2.
- Pressure treated 2x4 framing lumber, pressure treated 3/4 inch plywood with skid resistant surface coating, and weather resistant deck screws 3 1/2 inch minimum for framing and 1 5/8 inch minimum for plywood.
- 1/4 inch minimum steel plate or commercially available prefabricated plates with skid resistant surface coating conforming to Americans with Disabilities Act Accessibility Guidelines. If placed in the roadway, must be able to handle a vehicle weight of 88,000 lbs.

C Construction

Place, compact, and level a dense graded aggregate foundation before placing the surface.

Provide a firm, stable, and slip-resistant surface layer with vertical joints no higher than 1/4 inch and horizontal joints no wider than 1/2 inch. Sheet materials up to 1 inch thick may be lapped if the edge is beveled at 45 degrees or flatter. Asphalt may also be used to ramp up to materials up to 1 inch thick. Construct conforming to the following:

- Asphalt surface a minimum of 2 inches thick compacted with compactors, tampers, or rollers.
- Framed plywood panels 4 feet wide with a skid resistant surface coating.
- Steel or prefabricated plate with a skid resistant surface coating.

Align parallel to the existing roadway grade or, if outside of a street or highway right-of-way, do not exceed 5 percent longitudinal slope. Provide cross slope of 1 to 2 percent unless the engineer approves a steeper cross slope in writing.

Maintain the surface with a 4 foot minimum clear width and the specified joint and slope requirements. Repair or reconstruct installations disturbed during construction operations. Remove and dispose of as specified in standard spec 203.3.4 when no longer required.

D Measurement

The department will measure temporary pedestrian surface 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
644.1410.S	Temporary Pedestrian Surface Asphalt	SF

Payment is full compensation for providing, maintaining, and removing temporary pedestrian surface.

stp-644-010 (20150630)

29. Temporary Curb Ramp, Item 644.1601.S.

A Description

This special provision describes providing, maintaining, and removing temporary curb ramps.

B Materials

Furnish materials as follows:

- Asphaltic surface conforming to standard spec 465.2.
- Engineer-approved ready mixed concrete or ancillary concrete conforming to standard spec 602.2 except no QMP is required.
- Commercially available prefabricated curb ramps conforming to Americans with Disabilities Act Accessibility Guidelines.

Furnish yellow detectable warning fields conforming to Americans with Disabilities Act Accessibility Guidelines. Use either an engineer-approved surface-applied type or cast iron from the department's approved products list.

C Construction

Provide and maintain temporary curb ramps, including detectable warning fields, throughout the project duration. Place and compact a dense graded aggregate foundation before placing the curb ramp, unless the curb ramp is to be placed on existing roadway surface.

Remove and dispose temporary curb ramps and associated detectable warning fields when no longer required.

D Measurement

The department will measure temporary curb ramps by each individual ramp, 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
644.1601.S	Temporary Curb Ramp	EACH

Payment is full compensation for providing, maintaining, and removing temporary curb ramps.

stp-644-020 (20150630)

30. Temporary Pedestrian Safety Fence, Item 644.1616.S.

A Description

This special provision describes providing, maintaining, and removing the temporary pedestrian safety fence.

B Materials

Furnish notched metal "T" or "U" shaped fence posts weighing 1 1/3 pounds per foot or more.

Furnish select 2x4 dimensional lumber.

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

The engineer may allow prefabricated fencing systems conforming to Americans with Disabilities Act Accessibility Guidelines.

C Construction

Provide a continuous safety fence with the top edge free of sharp or rough edges.

Repair or reconstruct installations disturbed during construction operations. Remove and dispose of as specified in standard spec 204.3 when no longer required.

D Measurement

The department will measure Temporary Pedestrian Safety Fence 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
644.1616.S	Temporary Pedestrian Safety Fence	LF

Payment is full compensation for providing, maintaining, and removing the temporary pedestrian safety fence.

31. Geotextile Type SR.

Provide type SR geotextile fabric conforming to standard spec 645 and conforming to the following physical properties:

Test	Method	Value[1]
Minimum Tensile Strength	ASTM D 4595	30 lb/in
Maximum Elongation at Required Strength	ASTM D 4595	15 %
Minimum Puncture Strength	ASTM D 6241	175 lb
Maximum Apparent Opening Size	ASTM D 4751	No. 40 µm
Minimum Permittivity	ASTM D 4491	0.26 s^{-1}

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

stp-645-035 (20171130)

32. General Requirements for Electrical Work.

Replace standard spec 651.3.3 (3) with the following:

(3) Request a signal inspection of the signal installation to the engineer after completing the Prerequisites for Underground Inspection or Prerequisites for Above Ground Inspection at least five working days prior to the time of the requested inspection. Contact Ara Molitor, City of Racine, at (262) 636-9487 to coordinate the inspection. Ara Molitor or the other person designated by the City of Racine will perform the inspection. In the event of deficiencies, request a re-inspection when the work is corrected. The engineer will not authorize continuation to aboveground work or turn-on until the contractor corrects all deficiencies.

33. Electrical Service Meter Breaker Pedestal Lathrop Avenue, Item 656.0200.01; Electrical Service Meter Breaker Pedestal Taylor Avenue Item 656.0200.02; Electrical Service Meter Breaker Pedestal Drexel Avenue, Item 656.0200.03; Electrical Service Meter Breaker Pedestal West Lawn Avenue, Item 656.0200.04; Electrical Service Meter Breaker Pedestal Ashland Avenue, Item 656.0200.05.

Append standard spec 656.2.3 with the following:

(2) The department will be responsible for the electrical service installation request for any department maintained facility. Notify the maintaining authority if the signal is not state maintained that it is their responsibility to arrange for the electrical service installation.

(3) Electrical utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

(4) Install the cabinet base and meter breaker pedestal first, so the electrical utility company can install the service lateral. Install a 3-inch conduit from the point of service from the utility to the meter breaker pedestal. Finish grade the service trench, replace topsoil that is lost or contaminated with other materials, fertilize, seed, and mulch all areas that are disturbed by the electrical utility company.

Append standard spec 656.5 with the following:

(8) Payment is full compensation for grading the service trench; replacing topsoil; and for fertilizing, seeding, and mulching to restore the disturbed area of the service trench.

34. Temporary Traffic Signals for Intersections Lathrop Avenue, Item 661.0200.01; Temporary Traffic Signals for Intersections Drexel Avenue, Item 661.0200.02.

Replace standard spec 661.2.1 (1) with the following:

Furnish and install all temporary traffic signal equipment as shown on the plans. All wood poles shall be plumb and level. Provide primary and secondary temporary traffic signal contact names and phone numbers who will be responsible for implementing temporary traffic signal timing changes. The department may request traffic signal timing changes to an approved timing plan during the project. Implement any approved timing plan change within 24 hours upon notification of the change. Record the times of operation of the timing change and provide this information to the department.

Replace standard spec 661.2.1 (3) with the following:

Use existing underground electric service and meter breaker pedestal for the operation of the Temporary Traffic Signal. The contractor will be responsible for arranging any additional service connection to the temporary signal. The department will pay for all Energy Costs for the operation of the Temporary Traffic Signal.

Furnish and install a generator to operate the temporary traffic signals for the times required to switch the existing permanent traffic signal over to the temporary traffic signal and for the time required to switch the temporary traffic signal back over to the permanent traffic signal.

Contact Dean Lenius at (414) 944-5653, or (414) 659-3754 (mobile) at least four days prior to making the switch from the existing Permanent Traffic Signal to the Temporary Traffic Signal.

Replace standard spec 661.3.1(2) with the following:

Request a signal inspection of the completed temporary traffic signal installation to the engineer at least five working days prior to the time of the requested inspection. Contact Ara Molitor, City of Racine, at (262) 636-9487 to coordinate the inspection. Ara Molitor or the other person designated by the City of Racine will perform the inspection.

35. Section 671 Intelligent Transportation Systems–Conduit

Replace standard spec 671.5 (2) with the following:

(2) Payment for the Conduit HDPE and Conduit HDPE Directional Bore bid items is full compensation for providing, hauling, and installing all materials including conduit, fittings, couplers, and bends, and for making necessary connections into existing pull boxes and vaults. Payment includes full compensation for pull wires or ropes; for expansion fittings and caps; for excavating, bedding, backfilling, and restoration of ground to original condition including sand, concrete, or other required materials; for disposing of surplus materials; and for making inspections.

36. Fiber Optic Splice Enclosure.

Perform work according to standard spec 678 except hereinafter modified:

The department will measure Fiber Optic Splice Enclosure as one enclosure for all splices at each location called out on the plans, acceptably spliced and completed.

37. Install Fiber Optic Cable Outdoor Plant 48-CT, Item 678.0096.

Append standard spec 678.3.1 with the following:

(4) A 12 AWG. XLP insulated, stranded, copper, 600 volt AC, trace wire shall be furnished and installed in each run of conduit, as laid, which is to receive fiber optic cable. The wire shall be approximately 4 feet longer than the run of conduit and shall be doubled back at least 2 feet at each raceway access point. The pull wire shall be anchored at each access point in a manner acceptable to the project manager.

38. Performance Engineered Mixture (PEM) Testing.

A Background

On a national level FHWA is promoting the use of PEM specifications and testing methods. As part of this initiative the WisDOT is slowly implementing PEM specifications on certain projects with a focus on collecting as much data as possible before full implantation on a state-wide basis. For this project FHWA has established four categories which are outlined below:

Category A: Incorporating two or more AASHTO PP 84-17 tests in the mix design/approval process. To meet this requirement this project will use:

a. The department's Optimized Aggregate Gradation Incentive STSP.
b. Current SAM shadow standard specifications.
c. The departments Flexural Strength for Concrete Mix Design STSP.
d. The Box Test.

Category B: Incorporating one or more AASHTO PP 84-17 test in the acceptance process. To meet this requirement this project will use:

a. The departments Optimized Aggregate Gradation Incentive SPV.
b. Current SAM shadow standard specifications.
c. Flexural Testing during production. Language provided within this SPV.

Category C: Require a comprehensive QC Plan from the contractor that will be approved and monitored by the state. To meet this requirement this project will use:

a. Language provided within this SPV.

Category D: Require the use of control charts, as called for in AASHTO PP 84-17. To meet this requirement this project will use:

a. Language provided within this SPV.

B Description

This special provision describes furnishing additional concrete pavement testing and documentation as hereinafter provided:

During the mix design process perform the Box Test as outlined in AASHTO PP84-17 for each mix design. Include test results with the QMP plan.

In addition to compressive strength testing during production, perform Flexural Strength testing conforming to AASHTO T97 a minimum of once per lot. Test results will not affect incentive or disincentive strength payments. The department will perform QV Flexural Strength testing a minimum of once per lot.

Provide control charts conforming to Section 8 of AASHTO PP84-17 with control limits prior to incorporating material into the project for all QC testing. Plot all QC, QV and process control test results on the control charts. Provide daily updated control chart results, hard copy or electronically, to the engineer and the Bureau of Technical Services, Chad Hayes at chad.hayes@dot.wi.gov.

39. Optimized Aggregate Gradation Incentive, Item 715.0710.

Description

This special provision describes contractor optimized aggregate gradation, optional optimized mixture designs, and associated additional requirements for class 1 concrete used in concrete pavements. Conform to standard specification part 7 and as follows:

Optimized Aggregate Gradation

Replace standard spec 715.2.2 with the following:

A Job Mix Formula (JMF) contains all of the following:

Proportions for each aggregate fraction conforming to Table 1.

Individual gradations for each aggregate fraction.

Composite gradation of the combined aggregates including working ranges on each sieve according to Table 2.

Submit the target JMF and aggregate production gradation test results to the engineer for review 10 business days before initial concrete placement.

TABLE 1 TARANTULA CURVE GRADATION BAND

SIEVE SIZES	PERCENT RETAINED
2 in.	0
1 1/2 in.	≤5
1 in.	≤16
3/4 in.	≤20
1/2 in.	4-20
3/8 in.	4-20
No. 4	4-20
No. 8[1]	≤12
No. 16[1]	≤12
No. 30[1] [2]	4-20
No. 50 [2]	4-20
No. 100 [2]	≤10
No. 200 [2]	≤2.3

[1] Minimum of 15% retained on the sum of the #8, #16, and #30 sieves.

[2] Conform to 24-34% retained of fine sand on the #30-200 sieves.

TABLE 2 JMF WORKING RANGE

SIEVE SIZES	WORKING RANGE[1] (PERCENT)
2 in.	+/- 5
1 1/2 in.	+/- 5
1 in.	+/- 5
3/4 in.	+/- 5
1/2 in.	+/- 5
3/8 in.	+/- 5
No. 4	+/- 5
No. 8	+/- 4
No. 16	+/- 4
No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2
No. 200	≤ 2.3

[1] Working range limits of composite gradation based on moving average of 4 tests.

Replace standard spec 710.5.6 with the following:

Determine the complete gradation, including P200, using a washed analysis for both fine and coarse aggregates. Test each stockpile for each component aggregate once per 1,500 cubic yards during concrete production.

Take samples by one of the following sampling methods:

1. At the belt leading to the weigh hopper.
2. Working face of the stock piles at the concrete plant if approved by the engineer.

The department will take independent QV samples using the same sampling method the contractor uses for QC sampling. QV samples may be taken by the contractor's QC personnel if witnessed by the department's QV personnel. The department will split each QV sample and retain half for all dispute resolutions. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

If, during concrete production, the moving average of four for any sieve fall outside the allowable JMF working range do the following:

1. Notify the engineer of the test results within 1 business day from the time of sampling.
2. Make immediate adjustments to the JMF, within the limits specified in Table 3;
3. Review JMF adjustments with the engineer. Both the contractor and engineer will sign the adjusted JMF if the adjustments comply with Table 3.
4. If the moving average of four falls outside the adjusted allowable working range, stop production and provide a new mix design including JMF to the engineer.

TABLE 3 ALLOWABLE JMF ADJUSTMENTS

SIEVE SIZES	ALLOWABLE ADJUSTMENT (PERCENT)
>= No. 4	+/- 5
No. 8 – No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2

Dispute Resolution

The department will resolve disputes as specified in standard spec 106.3.4.3.5 using QV split samples.

Sublot and Lot Size

A sublot consists of up to 1,500 cubic yards. A lot consists of two sublots.

Optimized Concrete Mixtures

The contractor may use a reduced cementitious content for concrete pavement placed if the contractor does the following:

1. Use an optimized aggregate gradation as defined in this special provision.
2. Conform to the additional testing requirements for flexural strength as specified in the contract special provisions.
3. Submit aggregate gradation result records no more than 2 years old when developing the mix design.
4. Determine the volume of voids in the optimized aggregates using ASTM C29.
5. Download and follow the instructions tab of the Optimized Gradation and Mix Design Spreadsheet located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
6. Design an appropriate paste content based upon the Performance-based PCC Mix Design Guide located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
7. Provide a minimum Vpaste/Vvoids of 1.25. (Paste/Void ratio equals the volume of paste divided by the volume of voids.).
8. Evaluate workability of trial batches by following section 6.8 of AASHTO Draft Performance Engineered Concrete Pavement Mixtures Specifications located at:

   https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/qmp/default.aspx
9. Submit trial batch workability results when submitting the mix design.
10. Submit the CP Tech center computer spreadsheet concrete mix design to the engineer for review at least 3 business days before producing concrete.
11. Provide a minimum cement content of 520 pounds per cubic yard, except if using type I, IL, or III cement in a mix where the geologic composition of the coarse aggregate is primarily igneous or metamorphic materials, provide a minimum cement content of 660 pounds per cubic yard.
12. The contractor may use class C fly ash or grade 100 or 120 slag as a partial replacement for cement. For binary mixes use up to 30% fly ash or slag. For ternary mixes use up to 30% fly ash plus slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.
13. See CMM 8-70.2.2.3 for additional guidance.

Measurement

The department will measure Optimized Aggregate Gradation Incentive by the dollar, for each combined averaged lot of QC test results meeting Table 1.

Payment

The department will pay incentive of 3 percent of the contract unit price for concrete pavement under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
715.0710	Optimized Aggregate Gradation Incentive	DOL

40. Flexural Strength for Concrete Mix Design.

This special provision describes testing requirements for flexural strength during the mix design process. Conform to standard spec part 7 as modified in this special provision.

Add the following to table 701-2 of the standard specification:

TEST	TEST STANDARD
Flexural Strength of Concrete	AASHTO T97

Replace standard spec 715.2.3.1(1) with the following:

(1) Provide both compressive and flexural strength information to demonstrate the strength of the proposed mix design. Use either laboratory strength data for new mixes or field strength data for established mixes as follows:

1. Use at least 5 pairs of cylinders for compressive strength. Demonstrate that the 28-day compressive strength will equal or exceed the 85 percent within limits criterion specified in 715.5.2.
2. Use at least 5 pairs of beams for flexural strength. Demonstrate that the 28-day flexural strength will equal or exceed 650 psi.

41. Colored Concrete Crosswalk, Item SPV.0035.01.

A Description

Construct colored concrete crosswalks with medium broom finish as detailed in the plans and as hereinafter provided.

B Materials

Provide all materials according to standard spec 405.

Replace standard spec 405.2.1.1(1) with the following:

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

- For Custom Red: Follow color pigment manufacturer's recommendations for minimum and maximum percentage of loading by weight of the cementitious material in the mix. Match the concrete color in reasonably close conformance with Custom Red color, which is similar to Federal Standard 595 - 30152.

Replace standard spec 405.2.1.1(3) with the following:

(1) The department will accept the color based on comparison to the final and accepted color sample of the test slab produced by conforming to all requirements under standard spec 405.2.1.4.3 for Trial Batches.

Replace the entire contents of standard spec 405.2.2 with the following:

(1) Furnish Custom Red full-depth colored concrete conforming to standard spec 405.2.1.

C Construction

Replace the entire contents of standard spec 405.3.2 with the following:

(1) Color concrete full-depth conforming to standard spec 405.3.1

(2) Texture with a medium broom finish, 1/16 to 1/8-inch-deep, by utilizing a stiff, fiber-bristled broom or other concrete finishing tool. Textured finish shall be applied perpendicular to the pedestrian path of travel.

(3) Protect the colored concrete crosswalks from damage. Do not permit construction traffic or material storage on colored concrete. Exclude other foot traffic from colored concrete for at least 15 days after placement. Remove and replace adjacent concrete that is discolored to the approval of the engineer.

D Measurement

(1) The department will measure the Colored Concrete Crosswalk by the cubic yard acceptably incorporated into work done under other contract bid items including material incorporated into one sample panel or one test slab that achieves a color and pattern the engineer accepts as required under standard spec 405.3.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.01	Colored Concrete Crosswalk	CY

Payment is full compensation for developing mix designs and providing sample panels or test slabs; for furnishing pigments; for special construction procedures required under standard spec 405.3; for

texturing; for removing test slabs, restoring the site, and disposing of waste material; and for other costs associated with coloring and texturing the concrete.

The department will pay separately for Concrete Pavement 8 1/2-Inch.

42. Topsoil Special, Item SPV.0035.02.

A Description

This special provision describes excavating and disposing of material taken from within tree planting locations in the street terrace and median according to standard spec 205 and furnishing and installing topsoil special at the tree planting locations according to standard spec 625, the plans, and as hereinafter provided.

B Materials

Furnish topsoil materials according to standard spec 625.

Ensure Topsoil Special is in a pH range of 6.0 to 7.5.

C Construction

Excavate materials as the plans show or the engineer allows from the tree planting areas according to standard spec 205. Dispose of surplus or unsuitable material as specified in standard spec 205.3.12. Place Topsoil Special according to standard spec 625 in locations and to depths indicated in the plans.

Take care not to damage or disturb adjacent landscape materials and be responsible for seeding, sodding or placing Shredded Hardwood Bark Mulch to repair any and all damage caused to adjacent landscape materials with like materials.

D Measurement

The department will measure Topsoil Special in volume 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	Topsoil Special	CY

Payment is full compensation for furnishing all materials; and for excavating and disposing of tree planting area materials. Damaged areas will be repaired at the contractors' expense.

43. Inlet Covers Type DW, Item SPV.0060.01.

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 as each individual inlet cover, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Inlet Covers Type DW	EACH

Payment is full compensation for providing new covers, including frames, grates or lids, all other required materials, for installing and adjusting each cover, and incidentals necessary to complete the contract work.

44. Section Corner Monuments Special, Item SPV.0060.02.

A Description

Coordinate with Southeastern Wisconsin Regional Planning Commission (SEWRPC) for the perpetuation and replacement of section corner (Public Land Survey System- PLSS) monuments.

B Materials

SEWRPC will provide a pre-cast concrete monument or brass disk to be used to mark the PLSS corner.

Furnish base aggregate dense materials that conform to standard spec 305 and concrete, asphalt, topsoil or other materials depending on the surface surrounding the corner.

C Construction

SEWRPC will perpetuate existing section corner monument. The contractor is responsible to coordinate with SEWRPC and the engineer throughout the perpetuation and replacement process. The engineer will contact SEWRPC at (262) 953-4295 at least two weeks before starting construction operations or the preconstruction meeting to allow for section corner monument perpetuation.

The contractor must excavate and completely remove the existing monument. The contractor is responsible for providing a backfilled 3 to 4 foot deep hole where existing monument was removed. The contractor is responsible to coordinate the materials and methodology to complete the construction of the surface surrounding the monument. This may include but is not limited to a 2x2-foot “box out” or 24-inch diameter core hole in concrete, asphalt pavement/paving rings, coring to facilitate poured in place monuments, topsoil, seed and mulching or other materials or methodologies as agreed to by the contractor and SEWPRC.

Contact Information:

Attn: John Washburn
Southeastern Wisconsin Regional Planning Commission
W239 N1812 Rockwood Drive
P.O. Box 1607
Waukesha, WI 53187-1607
Phone: (262) 953-4295
Fax” (262) 547-1103
E-mail: jwashburn@sewrpc.org

D Measurement

The department will measure Section Corner Monuments Special by the individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Section Corner Monuments Special	EACH

Payment is full compensation for all excavating; removal of existing monument, for placing and compacting backfill material; for disposing of surplus materials; for concrete or asphalt material, finishing of roadway or other surfaces and for all coordination with SEWRPC.

621-SER1 (20080714)

45. Utility Line Opening (ULO), Item SPV.0060.03.

A Description

This work consists of excavating to uncover utilities for the purpose of determining elevation and potential conflicts as shown on the plans or as directed by the engineer.

B (Vacant)

C Construction

Perform the excavation in such a manner that the utility in question is not damaged.

Perform the utility line openings 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. Provide utility line openings with a trench up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

Notify the utility engineers or their agents of this work a minimum of 3 working days prior to the work so they may be present when the work is completed. Do not perform utility line openings without the approval of the engineer.

D Measurement

The department will measure Utility Line Opening (ULO) as each individual ULO, 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	Utility Line Opening (ULO)	EACH

Payment is 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 for cleanup.

Existing pavement removal necessary to facilitate utility line openings will be considered part of or paid for under Utility Line Openings. Replacement pavement, concrete curb, gutter, and sidewalk items will be considered separate from Utility Line Openings and will be measured and paid for separately.

46. 6-Count Fiber Optic Connector 200-FT, Item SPV.0060.04.

A Description

This special provision describes furnishing and installing 6-count factory terminated combination fiber optic patch panel and cable systems of the lengths described, according to standard spec 651, 655, 670, and 678, as shown on the plans, and as hereinafter provided.

B Materials

Furnish combination fiber optic termination patch panel and cable systems meeting the following requirements:

1.01 6 single mode fiber optic strands.
1.02 Factory terminated LC connectors on panel end.
1.03 Bare, unterminated fiber strands on non-panel end.
1.04 Loose tube cable.
1.05 Cable length as indicated by bid item.
1.06 Patch panel must be designed and tested for 1,000 rematings with less than 0.2 dB change.
1.07 Patch panel housing material must be ABS plastic.

C Construction

Follow all manufacturer’s recommended installation procedures.

Install cable from control cabinet end out to fiber optic splice location as shown on the plans to prevent damage to the termination panel.

Mount the termination panel end in the control cabinet in a space available upon receiving approval by the engineer.

Contact the City of Racine Traffic Engineer a minimum of 7 working days in advance to coordinate installing equipment in the traffic signal cabinet and 14 working days in advance to coordinate installation of fiber optic splices.

D Measurement

The department will measure 6-Count Fiber Optic Connector 200-FT as each individual 6-Count Fiber Optic Connector 200-FT, 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	6-Count Fiber Optic Connector 200-FT	EACH

Payment is full compensation for furnishing and installing the fiber optic cable; for coordination with the department; and for termination panel assembly.

The department will pay separately for fiber optic splices.

47. Removing Lighting Control Cabinets, Item SPV.0060.05.

A Description

This work shall consist of removing lighting control cabinets, electric services, and the concrete bases.

B (Vacant)

C Construction

Coordinate with the electric utility for the permanent removal of its service lateral. Return cabinets to the City of Racine. Utility disconnection fees, if any, will be paid by the city.

Contact Ara Molitor, City of Racine, at (262) 636-9487 at least 7 working days prior to the removal of the lighting cabinets.

D Measurement

The department will measure Removing Lighting Control Cabinets by the unit, removed and returned to the department.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	Removing Lighting Control Cabinets	EACH

Payment will be full compensation for removing, hauling, and properly disposing of materials.

48. Storm Sewer Tap, Item SPV.0060.06.

A Description

This special provision describes tapping various sized storm sewer pipes into existing structures, including manholes or inlets, or other pipes at locations shown on the plans.

Perform the work according to the applicable provisions of standard spec 607 and 611, and as hereinafter provided.

B (Vacant)

C Construction

Tap into the existing structure to allow the pipe to be flush with the interior wall of the existing pipe or structure.

All necessary temporary shoring needed for construction of this item will be considered incidental to this work.

D Measurement

The department will measure Storm Sewer Tap as each individual storm sewer tap, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Storm Sewer Tap	EACH

Payment is full compensation for providing all materials, including saw cuts, for excavating; for removing concrete; for providing and removing sheeting and shoring, making connections to new or existing facilities, and for cleaning out.

49. Reconstructing Sanitary Sewer Manholes, Item SPV.0060.07.

A Description

This special provision describes work required to reconstruct sanitary sewer manholes as shown on the plans.

Perform this work according to the pertinent provisions outlined on the following documents:

a. The specifications for the contract are the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition, December 22, 2003, with Addendum No. 1, December 22, 2004, and are referred to as the plans and Standard Specifications for Sewer & Water.

b. The State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction 2019 edition.

c. The Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition with Revisions 1 and 2 incorporated.

B Materials

Materials shall adhere to Chapters 8.2, 8.3, and 8.10 of the Standard Specifications for Sewer & Water.

B.1 Frames and Grates

Neenah Type 1550 frame, with machine bearing surfaces, and Type “C” self-sealing cover with gasket and concealed pick holes pre-cast concrete rings. Trowelable mastic shall be installed between the manhole frame and cast-iron rings.

B.2 Manhole

a. Manholes shall conform to Chapter 3.5.0 of the Standard Specifications for Sewer & Water.

b. Rubber boots and seals are required for all pipe connections to manholes.

B.3 Seals

a. Frame/Chimney Seal: Internal/External Adapter Seal and 8” Sleeve as manufactured by Adaptor, Inc.

b. Barrel Joints: 8” banded exterior joint seal.

c. Fernco Fittings: Stainless Steel Shear Rings

C Construction

Install manholes according to Section 3.5.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, latest edition except as modified below:

a. All manhole barrel joints shall have a banded exterior joint seal that is at least 8” wide.

b. Maximum height from top of cone section to manhole frame shall be 12”.

c. Cracked or fractured concrete adjusting rings will not be accepted.

d. All manhole frames/chimneys shall receive an internal/external adapter seal and 8” sleeve manufactured by Adaptor, Inc.

e. The inside face of all adjusting rings shall be back-plastered with quick set mortar, ½” thick with brushed finish.

f. Wedges shall not be used to bring casting and seal to final grade.

D Measurement

The department will measure Reconstructing Sanitary Sewer Manholes as each individual sanitary 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.0060.07	Reconstructing Sanitary Sewer Manholes	EACH

Payment is full compensation for furnishing and reconstructing sanitary sewer manholes and incidentals necessary to complete the contract work.

50. Sanitary Sewer Manhole Covers Type J, Item SPV.0060.08.

A Description

This special provision describes work required to adjust sanitary sewer manholes as shown in the plans and according to standard spec 611.

B Materials

The contractor shall provide Neenah Type 1550 frame, with machine bearing surfaces, and Type “C” self-sealing cover with gasket and concealed pick holes pre-cast concrete rings. Trowelable mastic shall be installed between the manhole frame and cast-iron rings.

C Construction

Adjust manholes by raising or lowering structures. Structures adjusted in pavement shall be raised to within ¼-inch of finished pavement grades.

D Measurement

The department will measure Adjusting Sanitary Sewer Manhole Covers by each individual manhole adjustment, 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.0060.08	Sanitary Sewer Manhole Covers Type J	EACH

Payment is full compensation for furnishing and installing manhole frames and covers to finish grade; and for furnishing and placing all materials required for setting manhole covers to grade.

51. Moving Existing Bus Stop Shelter, Item SPV.0060.09.

A Description

This special provision describes work required to Moving Existing Bus Shelter to the location shown on the plans.

B Materials

Provide all materials required to install existing bus shelter at the location shown on the plan. All materials shall be approved by the City of Racine Transit and Parking Manager (Transit Manager).

C Construction

Contact Transit Manger: Michael J. Maierle at (262) 636-9780 five days prior to removing existing shelter from the concrete pad. Remove existing shelter from the exiting location, store them at the location designated by the Transit Manager, construct the concrete pad as shown on the plan, install the hardware required to install shelter on the new concrete pad, install the shelter on new pad as directed by the Transit Manager. New materials required to install the shelter in new location shall be approved by the Transit manager.

D Measurement

The department will measure Moving Existing Bus Shelter by each individual shelter, 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.0060.09	Moving Existing Bus Stop Shelter	EACH

Payment is full compensation for removing, cleaning, storing, and installing existing bus stop shelter at new concrete pad. Concrete pad is paid separately as a concrete sidewalk.

52. Traffic Signal Controller and Cabinet, Item SPV.0060.10.

A Description

This special provision describes the furnishing and installing a fully actuated 8 Phase (3808m52) with internal Fiber Optic Modem in EL-712 (Type 9) Control Cabinet.

This work shall consist of furnishing and installing traffic signal controllers as shown on the plans and as hereinafter provided.

The contractor shall submit two copies to the engineer of the following; Detection wiring diagrams, conductor layout standards and the associated head arrangements and other pertinent details.

Equipment will be examined, and tests will be performed to ensure that proper and sufficient equipment is furnished as is required to complete the signal plan operation and sequence in compliance with the intent of the contract specifications.

All testing and equipment examination shall be in the presence of the contractor's representative furnishing the equipment. The contractor's representative will be notified of any needed modifications or corrections to be accomplished by the contractor.

The cabinet shall not be installed until it is in proper working order and approved by the engineer.

After the contractor has mounted the cabinet on the cabinet foundation, he shall connect all the field wiring inside the controller cabinet and test the signal circuits for correct operation. The contractor shall connect and test the signal circuits outside the controller cabinet as directed by the engineer. Connecting and testing signal circuits shall be considered part of this item of work.

B Materials

B.1 Controller

The controller shall be a fully traffic actuated, solid state, digital microprocessor-based controller with internal fiber optic modem multimode, capable of providing the number and sequence of phases, overlaps and any special logic as described herein and shown on the accompanying plan. The controller shall be a Siemens m60 Series ATC for NEMA-style cabinets with internal fiber optic modem. The controller shall be capable of communicating ECOM protocol.

The controller shall be fully programmed and shall be mounted in a control cabinet to operate as a complete and functioning intersection traffic signal control system. The equipment items included shall be, but not necessarily limited to, cabinet, microprocessor-based controller with internal fiber optic multimode modem, conflict monitor, power distribution panel, interior cabinet wiring and other associated electrical and electronic equipment interior to the control cabinet that is necessary to provide the type of operation described in these specifications.

A four ring, programmable for both single and dual entry concurrent timing, nine phase frame or equivalent shall be provided. Volume density timing shall be provided for eight phases and pedestrian timing shall be provided for all phases. MUTCD flashing capability shall be provided. All controls shall be according to the accompanying plans and with NEMA Standards Publication No. TS1-1976 including Revisions No. 1 and No. 2.

The intersection controller unit shall be capable of up to 16 phase operation plus 16 programmable overlaps regardless of whether preemption, coordination or special programming is used. The intersection cabinet shall be wired for a minimum of twelve and include eight 3 circuit load switches.

B.2 Electrical and Operational Aspects

(1) Buffering. All logic circuit inputs shall be internally buffered to withstand transients and noise, such as might result from normal usage, without damage to any mechanism components.

(2) Timing Features. All controller timing parameters shall be fully programmable from the front panel using keyboard inputs. Memory storage features shall be nonvolatile under power off conditions for at least 30 days. The locking, nonlocking detection mode and per phase recall shall also be accessible on the front panel.

(3) Minimum Green Timing. The passage timer shall time concurrently with the minimum green timer, so that the duration of the minimum green time is directly adjustable and is independent of the passage time setting.

(4) Dual Ring Timing. In the dual ring application, no more than two phases shall be permitted to time concurrently and no more than one phase per ring. The controller shall provide barrier protection against concurrent timing of two conflicting phases; no phases assigned to one side of the barrier shall be permitted to time concurrently, if a conflict will occur. The controller shall service calls on a single entry basis, and both rings shall cross the barrier simultaneously according to the following logic:

(a) Phases timing concurrently shall terminate simultaneously if both have a gap out due to excessive time between actuations.

(b) Phases timing concurrently shall terminate simultaneously if both have a maximum time out.

(c) In the event that one phase has not achieved a gap out or maximum time out, the other gapped out phase shall be permitted to leave the gapped out condition and retime an extension when an actuation is received.

(5) Manual (Police) Control. If manual control is used, actuation of the manual control shall permit manual advance of the Walk, Pedestrian Clearance and Green interval terminations only. Manual termination of Yellow or All Red clearance intervals shall not be permitted.

(6) Red Revert. An adjustable red revert control shall be provided to assure adequate red display when recycling a phase during call-away or red rest mode operation. A call for service to different phase shall be preceded by an all-red clearance interval, as programmed.

(7) Coordination. The controller shall be capable of operation in progressive coordination systems and mutual coordination and shall contain, but not be limited to, the following external inputs, with all functions brought out:

- Vehicle/Pedestrian Detectors per phase
- Phase Omit per phase
- Omit Red Clearance per ring
- Maximum II per ring
- Stop Timing per ring
- Select Minimum Recall per controller
- Semi-Mode per controller
- Conflict Monitor Status
- Pedestrian Omit per phase
- Hold per phase
- Internal Max Inhibit per ring
- Red Rest per ring
- Force-Off per ring
- Manual Control per controller
- External Start per controller

(8) Minimum Safe Timings Control. Controllers shall not accept any operator input or stored timing parameters that would result in intervals shorter than the following: yellow clearance - 3.0 seconds, minimum walk - 4.0 seconds, minimum pedestrian clearance - 6.0 seconds, At the beginning of each of the above intervals, the controller shall check the previously stored data against these minimums. If an operator attempts to load an incorrect timing parameter, the controller unit shall output a unique error code on the front panel display. As an alternative to minimum timing control, a coded keyboard entry security feature may be provided.

(9) Indicator Lights and Switches. A backlit alphanumeric LCD display shall be provided to show the status of each signal phase on. The LCD display shall also be used to show the interval status, phase termination information and the presence of vehicular and pedestrian calls for each phase. The controller shall have fuses for AC power and +24 power.

(10) Data Display. The front panel shall contain a display panel consisting of a backlit alphanumeric LCD display. The face of the display shall be scratch, chemical and solvent resistant. The operator shall access the controller through a menu system. By selecting various menu options, real time operational status or stored parameter tables shall be presented to the operator.

(11) Diagnostic Program. A diagnostic program shall be prepared by the manufacturer of the controller unit which will demonstrate the proper operation of all inputs, outputs, controls and indicators in the controller, and shall have visual confirmation on the front panel. The diagnostic program shall be resident in the controller. The controller shall continuously run a diagnostic routine in the background to assure unit integrity.

(12) Maintenance of Controller. For ease of service, the controller shall be divided into a minimum of the following separate circuit boards:

a) CPU/Memory/Internal I/O

b) External Input/Output

c) Display Subsystem

d) Power Supply

Each board must be easily removable without requirements for special tools.

The controller shall provide user programmable, data logging of local events or alarm events including, but not limited to: Conflict Flash, Remote Flash, Local Flash, Controller Voltage Monitor, Detector Failure, On Line and Data Change. The time and date shall be recorded as a part of the message logged. The logging function shall be resident in the controller unit. The logging function shall be viewed from the front panel LCD display. If the logging function cannot be viewed from the front panel LCD display and it has to be performed by supplemental auxiliary equipment, the auxiliary equipment shall be supplied.

(13) RS-232 Interface. An RS-232C interface and connector shall be provided for interconnecting to a conflict monitor, printer, another like controller unit, a local personal computer or a remote personal computer through an external modem.

The controller unit shall be a Siemens m60 Series ATC for NEMA-style with internal fiber optic modem. The controller shall be capable of communicating ECOM protocol.

(14) Controller Functions.

a) Remote Flash

Controller shall have a user front panel programmable "Automatic Night Flash." The flash shall allow the user to program entry and exit phase(s) plus program the output of each load switch for off, flash, or alternate flash. This programming will be independent of start-up flash and or initial phase programming. This allows the operator complete programmability for automatic flash to be different from emergency flash.

b) Dynamic Maximum

This allows the user to program values which the controller will activate by user programmed time of day for automatic maximum time adjustments. This automatic controller adjustment will be based on concurrent "Max-Out" or "Gap-Out" terminations of phase green.

c) Detector Inputs and Logging

The controller shall have the capability to process 80 separate detector inputs. Each of the 80 inputs can be capable of being user programmable for phase detector inputs, system detector inputs, and/or Queue detector inputs. The controller shall have the capability to count in a report defined by the user up to 24 separate detector inputs. The report will log/record these 24 detector inputs for 72 events. Events start/stop and duration are all individually user programmable. This will allow the user total intersection counting capability without changing any field or cabinet wiring.

d) Queue Selection

The controller shall have two separate Queue selection routines capable of selecting any/all or partial timing plan operation over riding any existing operation. The queue selection shall be based on computed volume and/or user selected occupancy routine with processing up to eight detectors in each selection. The user programs thresholds settings to enable/disable queue override.

B.3 Monitoring

A NEMA monitor with all components and circuitry, independent from the controller and having the capacity to handle a minimum of 12 channels shall be provided. The monitor shall detect conflicting indications, switch failure, controller voltage drops and the absence of reds as follows:

Conflicting indications shall cause the monitor to place the intersection in a flashing mode of operation. The monitor shall maintain the flashing mode until manually reset, regardless of 110 VAC power to the conflict monitor.

The +24 VDC cabinet power source shall be monitored by the conflict monitor. If that voltage drops to an unsatisfactory level, the monitor shall place the intersection in a flashing mode of operation. Upon resumption of normal voltages, the controller shall resume normal stop and go operation without the necessity of manual resetting.

The absence of any required red signal voltage at the field connection terminals in the controller assembly shall cause the monitor to place the intersection in a flashing mode of operation. The monitor shall maintain the flashing mode until manually reset.

A load switch that turns on any two indications for the same approach, (such as green and yellow, yellow and red or red and green), shall place the intersection on a flashing mode of operation. The monitor shall maintain the flashing mode until manually reset, regardless of 110 VAC power to the controller.

After a power interruption (exceeding 457$\pm$25 milliseconds) to the controller assembly, a flashing period (4 to 10 seconds adjustable) shall precede the start-up (initialization) sequence. This feature can be resident in either the monitor or the controller.

The flash circuit shall be wired in a failsafe manner so that the intersection will revert to and remain in a flashing mode of operation, whenever and for as long as, either the controller unit or the monitor unit is disconnected.

Indicator lights shall be provided for:

1. an indicator for each channel which will latch status of failure,
2. +24 VDC inputs,
3. conflict,
4. power (conflict monitor unit),
5. power interrupt after failure,
6. red failure,
7. switch.

It will not be acceptable to disable any of the conflict monitor features because of signal sequences containing left or right turns with no red indication. Such sequences will require a loading resistor(s) to be mounted and wired to the unused triac output to simulate field load. The loading resistor shall be a DALE type RS 1000 ohm 25 watt resistor meeting MIL-R-370 or equal.

B.4 Terminal Facilities

Terminal facilities shall consist of all devices external to the controller unit which are necessary to complete the intersection. Terminal facilities supplied shall be protected by dual, common trip, 30 amp circuit breakers. The dual, common trip, 30 amp circuit breakers shall feed an evenly split signal bus through radio interference line filters and bus relays. Bus relays, in all cases, shall be mercury type contactors and shall not be jack mounted. Terminal facilities shall also include applicable load switch panels of sufficient capacity to accommodate 8 vehicle phases and 4 pedestrian phases or 4 overlap phases and shall include a minimum of 12 solid state 3 circuit load switches with visual indicators. Flash transfer relays as required and two double circuit NEMA flashers shall also be provided. The internal wiring of the load switch panels shall be insulated wiring of sufficient size or the individual outputs fused so that the wiring will not be damaged by shorted output light circuits. Printed circuits in the load switch panels will not be acceptable.

Terminal strips shall be used to terminate controller cables, signal head cables and vehicle and/or pedestrian detector cables. All controller inputs and outputs shall be terminated on an interface panel. All interface and output terminal connections shall be the screw down type.

AC interconnect terminal facilities shall be fused to incoming lines.

B.5 Cabinet Switches

The following switches shall be located inside the cabinet on the maintenance panel:

1. Controller Power On/Off
2. Cabinet Light On/Off
3. Stop time (3 position)

POSITION	LABEL	FUNCTION
Upper	Stop Time	Place stop time on the controller
Center	Run	Remove stop time input to the controller
Lower	Normal	Connects the monitor to the controller stop time input

Switches shall be provided for all vehicle phases and all even pedestrian phases.

The following switches shall be located behind the police door:

a. Signal/Off

b. Flash/Normal

The above switches (a&b) shall function as follows:

	SIGNAL	OFF
FLASH	Signals Flash	Signals Dark
NORMAL	Signals Normal	Signals Dark

B.6 Manual Detector Operation

Three position switches shall be provided external to the controller which will permit manual detector calls and manual detector disconnect for each phase independently. The switches shall be spring loaded and shall rest in the center (non-operative) position. The switches shall be appropriately labeled and shall operate as follows:

Upper Position:	Spring loaded, Disconnect detector
Center Position:	Normal detector operation
Lower Position:	Spring loaded, Test call is placed to the controller.

B.7 Cabinet and Cabinet Equipment

The controller shall be furnished completely housed in a door-in-door ground mounted (without anchor bolts) metal cabinet size 44 inches wide, 27 inches deep and 56 inches high.

The cabinet shall be of clean cut design and appearance. The size of the cabinet shall be such as to provided ample space for housing the controller and all of the associated electrical devices which are to be furnished with the controller, together with any other auxiliary devices herein specified.

All cabinets shall have the following:

1. A 15-amp circuit breaker for auxiliary equipment.

A pedestrian push button opto-isolator assembly providing four channels of isolation. Relays shall not be acceptable.

A valve type surge protector, as manufactured by Joslyn, catalog No. L9200-10; General Electric, catalog no. 9L15DCB002; or approved equal, shall be mounted internally within the traffic signal cabinet and shall be connected across the line terminals of the circuit breakers. A General Electric arrestor, catalog no. V150LA20A shall be installed at the load terminals of each circuit breaker from the hot line to the ground conductor.

Incandescent lamp socket with 100 watt lamp.

Solid state NEMA flasher(s) with visual indicators and completely wired base, rated for at least 10 amps per circuit at 165 degrees.

Control switches, including controller power switch, stop time switch and cabinet light switch.

All switches specified in sections E and F.

All necessary fuses and circuit breakers.

All wiring harnesses including detector harnesses. Loop detector harness connector shall be MS3106B018-1S, fully wired, terminals J shall go to separate isolated terminals. Loop harnesses shall be provided as per the plans.

Duplex power receptacle. A 120 VAC 20 amp, NEMA 5-20R GFI convenience outlet shall be mounted in each cabinet for energizing equipment or tools. The outlet shall be fuse protected.

Radio interference filter. Each control cabinet shall be equipped with a single radio interference suppressor of sufficient ampere rating to handle the load requirements. The RIS shall be installed at the input power point. It shall minimize interference in both the broadcast and the aircraft frequencies and shall provide a maximum attenuation of 50DB over a frequency range of from 200 KHz to 75MHz, when used in connection with normal installations. The RIS shall be hermetically sealed in a substantial metal case which shall be filled with a suitable insulating compound. The terminals shall be nickel plated brass studs of sufficient external length to provide space to connect two no. 8 AWG wires and shall be so mounted that they cannot be turned in the case. Ungrounded terminals shall be properly insulated from each other and shall maintain a surface leakage distance of not less than 1/4 inch between any exposed current conductor and any other metallic parts. The terminals shall have an insulation factor of 100-200 megohms dependent upon external conditions. The RIS shall not be rated less than 35 amperes. The RIS shall be designed for operation on 115 VAC$\pm$10%, 60 Hz, single phase circuits, and shall meet the standards of UL and Radio Manufacturer's Association.

Cabinet grounding. In all controller cabinets and auxiliary cabinets, the AC common, the logic ground and the chassis ground shall be isolated from each other the same as detailed by NEMA Standard.

Suppressors. Each 120 VAC circuit that serves an inductive device, such as a fan motor or a mechanical relay, shall have a suppressor to protect the controller's internal solid state devices from excessive voltage surges. Such suppressors shall be in addition to the surge protector at the input power point.

All conductors in the cabinet shall be number 22 AWG or larger, with a minimum of 19 strands and conforming to military specifications, Mil-W-16878D, type B or D vinyl nylon jacket, 600 volt, 105 degree C. All cabinets shall be factory wired.

The cabinet shall provide weather protection and forced ventilation, air filters and heaters with adjustable thermostat switches to comply with the environmental and operating standards outlined in NEMA Specification TSI-1-1976. The heater supplied shall have an adjustable thermostat setting which varies from 0 degree to 40 degree. The cabinet shall provide reasonable vandalism protection. Access doors shall be provided with latches and a corbin lock, dust cap and key change IR6380. The small door shall be provided with standard police locks.

B.8 Forced Ventilation

Controller cabinet containing solid state equipment shall be ventilated by means of a 120 VAC, 60 Hz, tube axial compact type fan. The fan's free air delivery flow shall be greater than 100 CFM. The magnetic field of the fan motor shall not affect the performance of the control equipment. The fan bearings shall operate freely. The fan unit shall not crack, creep, warp or have bearing failure within a 7 year duty cycle. The maximum noise level shall be less than 40 decibels. The fan unit shall be corrosion resistant. The thermostat's turn on setting shall be adjustable from 90 to 120 degrees Fahrenheit. The fan shall run until the cabinet's temperature decreases to approximately 30 degrees below the turn on temperature setting. The fan shall be fused.

Metal shelves shall be provided to support the controller and external equipment. The controller shall be mounted on the top shelf and not less than 38 inches above the bottom of the cabinet. There shall be a minimum of 10-inch vertical height for detector units.

Bus and flash transfer relays, flashers, load switches, circuit breakers and interference filters shall be located on a standard panel consistent with the intersection plan. Design shall facilitate field inspection and maintenance accessibility without excessive disassembly or special tools.

All cabinet inside and outside surfaces shall be primed with phosphate treatment and primer. After priming, all exterior surfaces shall receive a minimum 2 coats of rust resistant silver gray enamel and interior surfaces shall be furnished with rust resistant high gloss white enamel.

Any cables, wires or circuits which are not being used shall be neatly folded and shall be capped. These wires shall be neatly tied and stowed away in or on the terminal facilities.

Terminal facilities arrangement shall be in a fashion so that trouble shooting of load bay or behind the load bay can be accomplished with simple tools. This means that the load bay will be hinged so that it can be dropped down for ease of maintenance. There will be sufficient slack in the load bay wiring to allow for dropping the load bay.

All control cables (i.e. detector harnesses, controller harnesses and harnesses which connect manual/vehicle detector switches) shall be protected by a nylon jacket or equivalent protection to prevent any contact with cabinet metal shelves, doors and any other sharp corners.

If any branch circuit wiring or control wiring does not conform to the wire specifications, the supplier will be considered as not meeting the specifications and proper corrective action will be exercised against the supplier.

B.9 Solid State Load Switches

Load switches shall meet the requirements of NEMA-TS1 Part 5 for three circuit load switches.

Each load switch shall contain optical isolation between the control and the load circuits. The module shall have the functions and terminal assignments as specified in NEMA TS1-Part 5.

Each panel of load switches shall be either rack mounted or shall have a switch support bracket extending across the entire length of the switch panel.

The load bay arrangement from left to right shall be as described below:

1. Vehicular phasing shall be grouped first - phase 1 through phase 8, inclusive.

Pedestrian phasing shall follow next - phase 2, phase 4, phase 6 and phase 8

B.10 Equipment List and Drawings

Detailed shop drawings of the control cabinet, equipment layout drawings and wiring diagrams of all equipment installed in the cabinet shall be submitted to the engineer for approval. Two sets of cabinet wiring diagrams shall be contained in a heavy duty clear plastic envelope mounted on the inside of the front door.

B.11 Warranty

Each bidder shall certify that the equipment meets the required specification and shall provide a complete catalog description.

1. A warranty statement which stipulates that equipment to be supplied shall be warranted for two years from the date of purchase. Warranties longer than the one year contractor performance bond shall be provided by the manufacturer.

Operation manuals.
Maintenance manuals.
Schematic diagrams.
Component and equipment locations within the cabinet.

If a malfunction in the controller unit, or its auxiliary equipment occurs during the warranty period, the supplier shall, within 48 hours after notification (excluding Saturday and Sunday), furnish a like controller unit module, or auxiliary equipment, for use while the warranted unit is being repaired. The isolation of any malfunction during the warranty period shall be the responsibility of the supplier. After the supplier has repaired and returned the equipment, the city shall then return the spare component to the supplier.

B.12 Preemption

1. General.

These specifications detail a preemptor program for use with 2 through 16 phase actuated controller.

The preemptor shall be capable of being adaptable to meet the various types of applications such as railroad, fire station, emergency vehicle and bridge preempts, simultaneously.

The preemptor shall be internal to the controller and shall not alter the controller capability or interchangeability under normal operation. The preemptor shall be completely programmable by the user in the field and have six separate sequences with each having high and low priority inputs capable of the following;

Preempt Program

a. Preempt Registration. The preempt call input shall initialize preempt registration and start preempt sequence unless a priority call input is activated which would treat the current controller preemptions as normal operation and reinitiate call registration.

b. Preempt Delay. As soon as the preempt call is registered the preempt delay will begin timing unless preempt delay is set to zero or preempt delay omit was active during preempt call registration. Delay shall be programmable from 0 to 255 seconds minimum.

c. As soon as preempt delay is timed out, current running phases not next to be common in the preempt sequence are cleared. If the running phases are green and must be cleared, special programmable values of minimum green, walk and pedestrian clearance intervals will time normal times. Concurrently a special preempt clearance is generated. This clearance is designed for advance track signals and any overlaps that make be green and require yellow clearance.

d. Entry Clearance Phase(s) Select. Two sequential phases or phase pairs shall be available to be run as programmable fixed time intervals as an entry sequence. Two entry options shall be available, each programmable. The entry sequence shall be capable of being omitted entirely.

e. Dwell Sequence. After the entry sequence, the preemptor shall enter the dwell sequence. During the dwell sequence the controller shall cycle between selected phases on a pre-timed or actuated basis. Pedestrian phasing may be normal or omitted entirely. When the dwell sequence is entered, a preempt dwell output shall be generated. The preemptor shall remain in dwell for the length of the dwell extension timer which shall be capable of being held in reset by the preempt call input. Dwell extension shall be omittable by setting the timer to zero.

f. Exit Sequence. After leaving dwell, the controller shall enter one or two programmed exit phase(s) or phase pairs sequences. The sequence will time programmed minimum green and place a vehicle call on all phases not omitted. After timing exit phase minimum green the controller shall time and sequence normally.

g. Preempt Sequences. The preemptor shall provide a minimum of six different programmable preemption sequences. These preemption sequences shall be associated with separate preempt call inputs or the sequences may be linked to each other to create more sophisticated sequences.

B.13 Time Base Coordination

These specifications detail a time base coordinator program for use with 2 through 16 phase actuated controller. The units shall allow traffic control equipment to be coordinated without requiring the use of interconnection cables. The units shall coordinate traffic control equipment based on signals from a precise time base which will allow output control signals to be changed at the proper preprogrammed time to achieve the coordinated operation of an intersection with other intersections or the desired operation of an isolated intersection. The time base coordinator may also be used as a programmer for a master intersection controller which in turn is interconnected with secondary intersection controllers. The units shall also be capable of providing a command for MUTCD flash, and shall allow a full year program to be initiated and carried out without the necessity of field adjustment for anticipated special events, etc.

The coordinator shall be capable of enabling/disabling dynamic Max, automatic flash and detector logging.

The time base coordinator shall be internal to the controller and shall not alter controller capability or interchangeability under normal operation. The time base coordinator shall be completely programmable by the user.

B.14 Controller Operation

Consistent with customary trade practices, the manufacturer shall furnish a warranty for all electrical or mechanical equipment described herein. The contractor shall turn such warranty over to the owner for potential dealing with the guarantor.

If the contractor is the guarantor, he specifically waives the requirements of Section 289.14(2), Wisconsin Statutes, and agrees as a condition of the contract that the owner may maintain an action against him at any time during the warranty period for recovery of damages which the city may have sustained by reason of the failure the contractor to comply with the provisions of the warranty provided to the owner.

During the installation and testing of the controller, the contractor shall provide, at his own expense, a competent representative to oversee, direct and manage the installation and testing of the controller. In the final stages of installation and testing, the manufacturer's representative shall be available at the job site for consultation until such time as the controller operation is tested and accepted.

C Construction

Install equipment as shown on the plans and as specified in this special provision.

D Measurement

The department will measure Traffic Signal Controller & Cabinet as a single 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.0060.10	Traffic Signal Controller and Cabinet	EACH

Payment is full compensation for furnishing and installing the signal controller and conflict monitor together with cabinet, switches for flashing operation and fittings as are necessary to assure that the controller will perform said functions.

53. Luminaires Utility LED 139 Watts, Item SPV.0060.11.

A Description

Perform work according to the applicable provisions of standard spec 659 and as detailed on the plans.

B Material

Furnish light fixture with LED lamping.

Fixture shall be equipped with full cutoff, Type II segmented optics as shown on the plans.

LED lamping shall have a color temperature rating of 5700 degrees Kelvin; ±400K.

LED driver shall have an operating temperature rating of -40 °F to 105 °F.

Fixture shall be LEDway Street Light model STR-LWY-2M-HT-08-E-UL-SV-525 as manufactured by Cree, or equal.

Provide mounting hardware as required to mount LED light fixture on light pole arms. All mounting hardware shall be stainless steel.

C (Vacant)

D (Vacant)

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	Luminaires Utility LED 139 Watts	EACH

Payment will be according to standard spec 659.5.

54. Luminaires Utility LED 66 Watts, Item SPV.0060.12.

A Description

Perform work according to the applicable provisions of standard spec 659 and as detailed on the plans.

B Material

Furnish light fixture with LED lamping.

Fixture shall be equipped with full cutoff, Type II segmented optics as shown on the plans.

LED lamping shall have a color temperature rating of 5700 degrees Kelvin; ±400K.

LED driver shall have an operating temperature rating of -40 °F to 105 °F.

Fixture shall be LEDway Street Light model STR-LWY-2M-HT-04-E-UL-SV-525 as manufactured by Cree, or equal.

Provide mounting hardware as required to mount LED light fixture on light pole arms. All mounting hardware shall be stainless steel.

C (Vacant)

D (Vacant)

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.12	Luminaires Utility LED 66 Watts	EACH

Payment will be according to standard spec 659.5.

55. Install Existing Unit Duct Into New Pull Box, Item SPV.0060.13.

A Description

This special provision describes installing existing unit duct into a proposed pull box and splicing with proposed wiring within the pull box.

B Materials

Furnish model SSWB splice connectors as manufactured by Polaris Electrical Connectors or equal, quantity and size as required to splice wire quantities and sizes detailed in the plans. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction

Expose the outside of the existing unit duct near the new pull box installation location. Cut and reroute the existing unit duct into an appropriate sized hole in the new pull box for the entering unit duct, leaving sufficient wire length to splice to new wiring within the pull box. Fill void area between the drilled hole and unit duct with an engineer-approved filling material to protect against conduit movement and entry of fill material into the pull box. Tamp backfill into place.

Splice the existing unit duct wiring with new electrical wire lighting within the new pull box using new splice connectors.

D Measurement

The department will measure Install Existing Unit Duct Into New Pull Box as a single unit of work, acceptably completed. Up to five splice connectors installed per unit duct entry will be considered a single unit. Splice connectors in excess of five will constitute multiple units of payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.13	Install Existing Unit Duct Into New Pull Box	EACH

Payment is full compensation for furnishing and installing all materials, including splice connectors, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; for rerouting existing unit duct; for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; and for properly disposing of surplus materials.

56. Constructing Sanitary Sewer Manholes 4-FT, Item SPV.0060.14.

A Description

This special provision describes work required to construct sanitary sewer manhole 4-FT as shown on the plans.

Perform this work according to the pertinent provisions outlined on the following documents:

a. The specifications for the contract are the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition, December 22, 2003, with Addendum No. 1, December 22, 2004, and are referred to as the plans and Standard Specifications for Sewer & Water.

b. The State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction 2019 edition.

c. The Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition with Revisions 1 and 2 incorporated.

B Materials

B.1 General

a. The contractor shall provide to the engineer submittals for all pipe and other materials prior to start of construction.

b. Materials shall adhere to chapters 8.2, 8.3, and 8.10 of the Standard Specifications for Sewer & Water.

B.2 Frames and Grates

Neenah Type 1550 frame and grate, with machined bearing surfaces and Type “C” self-sealing cover with gasket and concealed pick hole.

B.3 Manhole

a. Manholes shall conform to chapter 3.5.0 of the Standard Specifications for Sewer & Water.

b. Rubber boots and seals are required for all pipe connections to manholes.

c. Manholes shall come with drops pre-built into the manhole structure.

B.4 Seals

a. Frame/Chimney Seal: Internal/External Adapter Seal and 8-inch Sleeve as manufactured by Adaptor, Inc.

b. Barrel Joints: 8-inch banded exterior joint seal.

c. Fernco Fittings: Stainless Steel Shear Rings

B.5 Backfill

a. Cover and Bedding material shall conform to section 8.2.6 of the Standard Specifications for Sewer & Water.

b. Granular Backfill material shall conform to section 8.43.4 of the Standard Specifications for Sewer & Water.

c. Slurry Backfill material shall conform to section 8.43.8 of the Standard Specifications for Sewer & Water.

C Construction

C.1 Existing Utilities

a. Underground utilities may be encountered. It shall be the contractor's responsibility to notify any utility and/or Diggers Hotline in advance of any excavation, for location of all underground utilities and to determine what safeguards and conditions they exist on when the excavation and backfilling operation is being done

b. The contractor shall protect all existing utilities during construction whether the existing utilities are shown on the plans or not. Utilities damaged by construction activities shall be repaired in a manner satisfactory to the engineer at the contractor’s expense. The contractor shall call Diggers Hotline, 1 (800) 242-8511, for staking and locating utilities.

c. The contractor shall expose all utility crossings and field-verify location and elevation. The utility is not responsible for damage caused by contractor made to existing utilities. See utility note on plans.

d. Damage to any water utility infrastructure shall be repaired by the Racine Water Utility. The contractor may perform water service alterations given the approval of the engineer.

C.2 Existing Sewer

Sewer flow shall be maintained during construction and may require bypass pumping to a downstream manhole

C.3 Excavation and Backfill

a. The contractor shall excavate all material to the depths necessary to construct the sewer as shown on the plans. Excavation shall include the removal of soil, rock, abandoned pipelines, old foundations, stumps, roots, and similar materials encountered. Excavation of whatever material shall be included in the contract unit prices for sewer installation and will not be paid for separately.

b. The excavated area shall be kept free of water at all times.

c. Backfilling shall follow immediately behind trench excavation and pipe laying operations. In no case shall more than 100 feet of trench excavation be open at any one point and time. Any excavation left open and unattended shall be protected with lighted Type II barricades and “Snow Fence” constructed around the perimeter of the excavation.

d. In areas where the proposed construction may interfere with existing utilities, additional excavation may be required to determine the exact location of said existing utilities. This work will be incidental to the contractor and no additional compensation will be due to the contractor for this work unless ruled otherwise by the engineer.

e. The contractor shall be responsible for immediate removal and proper disposal of all materials resulting from excavation, demolition, abandonment, and removal, unless otherwise indicated. The cost of removing previously abandoned utility facilities shall be included in the unit prices bid.

f. All excavations shall be back filled with granular backfill, unless specified differently on the plans sheet, conforming to the requirements of section 2.6.2 of the Standard Specifications for Sewer & Water in uniform layers of not more than 12 inches and mechanically compacted in placed with a boom mounted hydraulic compactor.

g. Bedding and cover material for trenches shall be 3/4-inch crushed stone chips conforming to Section 8.33.3 (Size No. 1), of the Standard Specifications for Sewer & Water.

h. Granular backfill material shall be compacted to a minimum of 95 percent Modified Proctor Density.

i. Where noted on the plans, the contractor shall hire, at their own expense, an independent testing firm to perform compaction testing. The engineer’s representative shall be on site as testing is performed. All testing reports shall be forwarded to the engineer for review.

C.4 Manhole

a. Manhole construction shall conform to section 3.5.0 of the Standard Specifications for Sewer & Water.

b. Manhole shall be pre-cast concrete with 48-inch inside diameter.

c. Pre-formed manhole invert bases will not be accepted.

d. All manhole barrel joints shall have a banded exterior joint seal that is at least 8-Inch wide.

e. Maximum height from top of cone section to manhole frame shall be 12-inch.

f. Cracked or fractured concrete adjusting rings will not be accepted.

g. All manhole frames/chimneys shall receive an internal/external adapter seal and 8-inch sleeve manufactured by Adaptor, Inc.

h. The inside face of all adjusting rings shall be back-plastered with quick set mortar, 1/2-inch thick with brushed finish.

i. Wedges shall not be used to bring casting and seal to final grade.

j. Abandoned sewer pipe shall be removed to at least 2 feet outside the manhole and bulk-headed.

k. The contractor shall be responsible for up to 7 feet of main while making connections to new manholes.

C.5 Testing

C.5.1 General

The contractor shall furnish all labor, equipment and material to complete all required tests.

C.5.2 Compaction Testing

a. Where noted on the plans or when deemed necessary by the engineer, the contractor shall, at his own cost, hire an independent firm to perform modified proctor backfill compaction testing on granular backfill material.

b. Testing shall be done in 100 foot increments along the construction trench when noted on plans, or at spot locations when deemed necessary by the engineer.

c. Backfill must meet a minimum compaction of 95 percent modified proctor. All test results must be submitted to and approved by the engineer prior to placing of permanent pavement.

d. Tests shall be performed when the trench is 1/3 filled, 2/3 filled, and when completely filled.

D Measurement

The department will measure Constructing Sanitary Sewer Manhole 4-FT as each individual sanitary 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.0060.14	Constructing Sanitary Sewer Manholes 4-FT	EACH

Payment is full compensation for furnishing and reconstructing sanitary sewer manholes and incidentals necessary to complete the contract work.

57. Removing Existing Bus Stop Shelter, SPV.0060.15.

A Description

This special provision describes work required to Remove Existing Bus Shelters.

B (Vacant)

C Construction

Contact Transit Manger: Michael J. Maierle at (262) 636-9780 five days prior to removing existing shelter from the concrete pad. Remove existing shelter from the exiting location and deliver them to the location designated by the Transit Manager.

D Measurement

The department will measure Removing Existing Bus Shelter by each individual shelter, 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	Removing Existing Bus Stop Shelter	EACH

Payment is full compensation for removing, cleaning, and delivering existing bus stop shelter to the location designated by the Transit Manager.

58. Concrete Raised Median 24-Inch, SPV.0090.01.

A Description

Construct colored concrete raised median as detailed in the plans and as hereinafter provided.

Concrete contractor must have experience successfully installing colored concrete and shall provide, upon engineer’s request, a written list of references specific to colored concrete projects in the upper Midwest.

B Materials

Provide all materials according to standard spec 601 and 620.

B.1 Concrete

Conform to standard spec 405 and 501 and as hereinafter provided:

Integrally color the concrete using non-fading synthetic iron oxides conforming to ASTM C979. Follow color pigment manufacturers recommendations for minimum and maximum percentage of loading by weight of the cementitious materials in the mix. Add integral concrete colorant according to manufacturer's instructions.

The integral color shall be red and shall closely match to Federal Standard 595 Color Server, FS color 30152. Provide manufacturer's color chart for integral color to engineer for approval before use.

Maintain mix characteristics for all colored concrete requiring a matching finish. Use the same source, brand, type, and color of portland cement, supplementary cementitious materials, aggregates and admixtures for colored concrete throughout the project. Use constant cement content, supplementary cementitious material content and water/cementitious materials ratio in the concrete mix to maintain consistent color.

B.2 Concrete Curing

Supply a clear, non-yellowing liquid membrane-forming clear curing compound conforming to AASHTO M 148, Type 1. Apply curing compound for integrally colored concrete according to manufacturer's instructions using manufacturer's recommended application techniques. Apply curing compound at standard time after each pour.

Do not cure colored concrete using plastic sheeting, unless necessary due to weather conditions.

B.3 Admixtures

Use admixtures designed for use and compatible with colored concrete pigments. Do not use calcium chloride or admixtures containing chlorides. Use the same admixtures for colored concrete pavement throughout the project.

C Construction

Construct concrete raised median according to standard spec 601 and 620 and as herein provided.

Coordinate locations of permanent signage requiring PVC pipe box outs per standard spec 634.3.2.

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 Placement

Produce colored concrete in full cubic yard increments.

Produce consistent colored concrete mixes. Once colored concrete placement has started, the engineer will not allow variations in the amounts, types, or source of materials with the exception of minor adjustments of water and air-entraining agent as necessary to maintain consistent color. Other changes require the contractor to repeat the mix approval process.

Colored concrete mixes for the entire project are to be consistent. If the contractor chooses to provide mixes with high early strength concrete, then all colored concrete will be provided as high early strength concrete. Switching from regular colored concrete to high early strength colored concrete or high early strength colored concrete to regular colored concrete will not be allowed.

If additional water is added to the colored concrete once a truck is on site, this concrete will be rejected.

If the engineer allows, minimal amounts of water may be applied to the surface of the colored concrete to complete the final surface finishing operations. If too much water is added to the surface of the colored concrete during final surface finishing operations the colored concrete may be rejected and removed at the direction of the engineer.

Schedule colored concrete placement to minimize exposure to rapid drying conditions, wind and full sun, before curing materials are applied. Do not place colored concrete if rain, snow, or freezing temperature is forecast within 24 hours.

Cover and protect adjacent construction and concrete from discoloration and spillage during placement and curing of colored concrete. Remove and replace discolored concrete as the engineer directs.

Apply seal per manufacturer's recommendations. Apply two coats of seal. Apply second coat after first coat has dried. Do not seal over blemishes or imperfections caused by rainfall or protection materials.

Protect colored concrete from premature drying and excessive cold or hot temperatures. Apply evaporation retarders to concrete surfaces during initial finishing only if hot, dry or windy conditions cause a moisture loss approaching 0.20 lb/sf/hr before and during initial finishing. Apply according to manufacturer’s written instructions.

Perform finishing operations consistently to avoid discoloration in the finished colored concrete. Do not begin finishing until bleed water has left the surface. Addition of surface water for aiding in finishing (often referred to as blessing the concrete) is not allowed. If water is added to the surface of the colored concrete once concrete is in place, the engineer will reject the colored concrete. During final finishing and texturing apply all strokes in the same direction.

Protect the colored concrete raised medians from damage. Do not permit construction traffic or material storage on colored concrete raised medians. Exclude other foot traffic from colored concrete raised medians for at least 5 days after placement.

Remove and replace adjacent concrete that is discolored to the approval of the engineer.

D Measurement

The department will measure Concrete Raised Median 24-Inch by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Concrete Raised Median 24-Inch	LF

Payment is full compensation for preparing the foundation, unless provided otherwise; all special construction required at curb ramps; for furnishing materials (including concrete masonry, colored pigments, sealers, joint and bond breakers, and retarders), hauling, preparing, placing, consolidating, shaping, curing, finishing and protecting the concrete; for sawing required for construction of colored concrete; for jointing and joint materials, and tie bars; for measuring opening strength including fabricating and testing cylinders, obtaining and testing cores, and evaluating maturity; for all removal of colored concrete; for protecting adjacent pavements and restoring the work site.

59. Abandoning Sanitary Sewer 18-Inch, Item SPV.0090.02.

A Description

This special provision describes abandoning existing sanitary sewer by filling it with concrete slurry.

B Materials

Provide concrete slurry and factory-made end caps, constructed of material meeting the same ASTM Specification as the pipe or brick and mortar, minimum of 8-inch thick, to abandon sanitary sewer.

C Construction

Fill the abandoned sanitary sewer pipe with concrete slurry as directed by the engineer. Bulkhead abandoned pipe with either factory-made end caps, constructed of material meeting the same ASTM Specification as the pipe, or brick and mortar, minimum of 8-inch thick.

D Measurement

The department will measure Abandoning Sanitary Sewer 18-Inch 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.0090.02	Abandoning Sanitary Sewer 18-Inch	LF

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

60. Sanitary Sewer PVC SDR 35 8-Inch, Item SPV.0090.03; Sanitary Sewer PVC PS-46 18-Inch, Item SPV.0090.04.

A Description

This special provision describes installing new sanitary sewer pipe.

Perform this work according to the pertinent provisions outlined on the following documents:

a. The specifications for the contract are the Standard Specifications for Sewer & Water Construction in Wisconsin, 6th Edition, December 22, 2003, with Addendum No. 1, December 22, 2004, and are referred to as the plans and Standard Specifications for Sewer & Water.

b. The State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction 2019 edition.

c. The Manual on Uniform Traffic Control Devices (MUTCD), 2003 edition with Revisions 1 and 2 incorporated.

B Materials

B.1 General

a. The contractor shall provide to the engineer submittals for all pipe and other materials prior to start of construction.

b. Materials shall adhere to chapters 8.2, 8.3, and 8.10 of the Standard Specifications for Sewer & Water.

B.2 Pipe

a. 8-Inch sanitary sewer pipe shall be Polyvinyl Chloride (PVC) and shall conform to ASTM D-3034, SDR-35

b. 18-Inch sanitary sewer pipe shall be Polyvinyl Chloride (PVC) and shall conform to ASTM F-679, PS-46.

B.3 Backfill

Cover and Bedding material shall conform to section 8.2.6 of the Standard Specifications for Sewer & Water.

Granular Backfill material shall conform to section 8.43.4 of the Standard Specifications for Sewer & Water.

Slurry Backfill material shall conform to section 8.43.8 of the Standard Specifications for Sewer & Water.

C Construction

C.1 Existing Utilities

a. Underground utilities may be encountered. It shall be the contractor's responsibility to notify any utility and/or Diggers' Hotline in advance of any excavation, for location of all underground utilities and to determine what safeguards and conditions they exist on when the excavation and backfilling operation is being done

b. The contractor shall protect all existing utilities during construction whether the existing utilities are shown on the plans or not. Utilities damaged by construction activities shall be repaired in a manner satisfactory to the engineer at the contractor's expense. The contractor shall call Diggers' Hotline, 1 (800) 242-8511, for staking and locating utilities.

c. The contractor shall expose all utility crossings and field-verify location and elevation. The utility is not responsible for damage caused by contractor made to existing utilities. See utility note on Plans.

d. Damage to any water utility infrastructure shall be repaired by the Racine Water Utility. The contractor may perform water service alterations given the approval of the engineer.

C.2 Existing Sewer

Sewer flow shall be maintained during construction and may require bypass pumping to a downstream manhole.

C.3 Excavation and Backfill

a. The contractor shall excavate all material to the depths necessary to construct the sewer as shown on the plans. Excavation shall include the removal of soil, rock, abandoned pipelines, old foundations, stumps, roots, and similar materials encountered. Excavation of whatever material shall be included in the contract unit prices for sewer installation and will not be paid for separately.

b. The excavated area shall be kept free of water at all times.

c. Backfilling shall follow immediately behind trench excavation and pipe laying operations. In no case shall more than 100 feet of trench excavation be open at any one point and time. Any excavation left open and unattended shall be protected with lighted Type II barricades and “Snow Fence” constructed around the perimeter of the excavation.

d. In areas where the proposed construction may interfere with existing utilities, additional excavation may be required to determine the exact location of said existing utilities. This work will be incidental to the contractor and no additional compensation will be due to the contractor for this work unless ruled otherwise by the engineer.

e. The contractor shall be responsible for immediate removal and proper disposal of all materials resulting from excavation, demolition, abandonment, and removal, unless otherwise indicated. The cost of removing previously abandoned utility facilities shall be included in the unit prices bid.

f. All excavations shall be back filled with granular backfill, unless specified differently on the plans sheet, conforming to the requirements of section 2.6.2 of the Standard Specifications for Sewer & Water in uniform layers of not more than 12-inch and mechanically compacted in placed with a boom mounted hydraulic compactor.

g. Bedding and cover material for trenches shall be 3/4-inch crushed stone chips conforming to section 8.33.3 (size No. 1), of the Standard Specifications.

h. Granular backfill material shall be compacted to a minimum of 95 percent Modified Proctor Density.

i. Where noted on the plans, the contractor shall hire, at their own expense, an independent testing firm to perform compaction testing. The engineer’s representative shall be on site as testing is performed. All testing reports shall be forwarded to the engineer for review.

C.4 Sewer Main

a. Sewer construction shall conform to chapter 3.2 of the Standard Specifications for Sewer & Water.

b. As a final inspection, all new sanitary sewers shall be televised after construction. See Section 7.1.2 of the Standard Specifications for Sewer & Water for details

C.5 Testing

C.5.1 General

a. The contractor shall furnish all labor, equipment and material to complete all required tests.

b. Costs for testing/televising sewers shall be included in bid price for linear foot of pipe

C.5.2 Deflection Testing

a. All new construction shall be subjected to deflection testing if engineer sees fit. Testing should be performed as soon as possible after constructing a manhole to manhole run.

b. Deflection testing shall conform to section 3.2.6(i)(4) of the Standard Specifications for Sewer & Water.

c. Deflection testing shall be done after backfilling and compacting but before paving.

d. Deflection testing shall be done under the supervision of the engineer or the engineers' representative

C.5.3 Televising

a. All new construction shall be televised before being accepted.

b. Televising of sewers shall conform to section 7.1.2 of the Standard Specifications for Sewer & Water.

c. Provide video footage to engineer for analysis.

d. If defects are found, contractor shall repair and re-televise at no additional cost to the utility.

e. Cost for televising shall be included in the unit price bid per linear foot of sewer pipe.

C.5.4 Compaction Testing

a. Where noted on the plans or when deemed necessary by the engineer, the contractor shall, at his own cost, hire an independent firm to perform modified proctor backfill compaction testing on granular backfill material.

b. Testing shall be done in 100 foot increments along the construction trench when noted on plans, or at spot locations when deemed necessary by the engineer.

c. Backfill must meet a minimum compaction of 95 percent modified proctor. All test results must be submitted to and approved by the engineer prior to placing of permanent pavement.

d. Tests shall be performed when the trench is 1/3 filled, 2/3 filled, and when completely filled.

D Measurement

The department will measure new Sanitary Sewer bid items in length by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Sanitary Sewer PVC SDR 35 8-Inch	LF
SPV.0090.04	Sanitary Sewer PVC PS-46 18-Inch	LF

Payment is full compensation for providing sanitary sewer, for excavating, for providing and removing sheeting and shoring; for staking, for constructing the foundation and backfilling; for cleaning out; for testing; and for restoring the work site.

61. Marking Contrast Epoxy 4-inch, Item SPV.0090.05.

A Description

This special provision describes applying contrast epoxy marking conforming to standard spec 646, as the plans show, and as follows.

B Materials

Furnish epoxy pavement marking materials conforming of standard spec 646.2.

C Construction

Apply two 1 ½-inch wide black epoxy lines with a 4-inch separation between the two black lines for the first pass, followed by a 4-inch wide white epoxy line second pass, for a total width of 7 inches. Apply epoxy pavement marking conforming to standard spec 646.3.

D Measurement

The department will measure Marking Contrast Epoxy 4-Inch Special by the linear foot, acceptably completed, measured once as the length of the centerline of the completed installation.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.05	Marking Contrast Epoxy 4-Inch	LF

Payment is full compensation for providing replacement marking.

SER-646-001 (20180131) 2-13-18

62. Marking Contrast Epoxy 8-inch, Item SPV.0090.06.

A Description

This special provision describes applying contrast epoxy marking conforming to standard spec 646, as the plans show, and as follows.

B Materials

Furnish epoxy pavement marking materials conforming of standard spec 646.2.

C Construction

Apply two 1 ½-inch wide black epoxy lines with an 8-inch separation between the two black lines for the first pass, followed by an 8-inch wide white epoxy line second pass, for a total width of 11 inches. Apply epoxy pavement marking conforming to standard spec 646.3.

D Measurement

The department will measure Marking Contrast Epoxy 8-Inch Special by the linear foot, acceptably completed, measured once as the length of the centerline of the completed installation.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.06	Marking Contrast Epoxy 8-Inch	LF

Payment is full compensation for providing replacement marking.

SER-646-002 (20180131) 2-13-18

63. Remove Traffic Signals Lathrop Avenue, Item SPV.0105.01; Remove Traffic Signals Taylor Avenue, Item SPV.0105.02; Remove Traffic Signals Drexel Avenue, Item SPV.0105.03.

A Description

This special provision describes removing existing traffic signals at the intersection of STH 11 and Lathrop Avenue, STH 11 and Taylor Avenue, STH 11 and Drexel Avenue according to the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

B (Vacant)

C Construction

Arrange for the de-energizing of the traffic signals with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Contact Ara Molitor, City of Racine, at (262) 636-9487 at least five working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

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

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove the transformer bases from each pole. Remove the signal heads, emergency vehicle preemption heads (evp), mast arms, luminaires, wiring/cabling, and traffic signal mounting devices from each signal standard, arm or pole. Ensure that all access hand hole doors and all associated hardware remain intact. Dispose of the underground signal cable, internal wires and street lighting cable off the state right-of-way. Deliver the remaining materials to 1415 Hampden Place, Racine WI 53403. Contact Ara Molitor, City of Racine, at (262) 636-9487 at least five working days prior to delivery to make arrangements.

Remove the signal cabinet from the footing. The signal cabinet and associated signal cabinet equipment shall be delivered Deliver to 1415 Hampden Place, Racine WI 53403. Contact Ara Molitor, City of Racine, at (262) 636-9487 at least five working days prior to delivery to make arrangements.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Remove Traffic Signals Lathrop Avenue	LS
SPV.0105.02	Remove Traffic Signals Taylor Avenue	LS
SPV.0105.03	Remove Traffic Signals Drexel Avenue	LS

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

64. Transporting Traffic Signal and Intersection Lighting Materials Lathrop Avenue, Item SPV.0105.04; Transporting Traffic Signal and Intersection Lighting Materials Taylor Avenue, Item SPV.0105.05; Transporting Traffic Signal and Intersection Lighting Materials Drexel Avenue, Item SPV.0105.06.

A Description

This special provision describes the transporting of department furnished materials for traffic signals and intersection lighting.

B Materials

Transport materials furnished by the department including: Anchor rods, monotube arms/poles and luminaire arms (to be installed on monotube assemblies).

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis, WI 53214. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials five working days prior to picking the materials up.

Provide all other needed materials in conformance with standard spec 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2.

C Construction

Perform work according to standard spec 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 except as specified below.

D Measurement

The department will measure Transporting Traffic Signal and Intersection Lighting Materials (location) as a single lump sum unit of work, in place and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.04	Transporting Traffic Signal and Intersection Lighting Materials Lathrop Avenue	LS
SPV.0105.05	Transporting Traffic Signal and Intersection Lighting Materials Taylor Avenue	LS
SPV.0105.06	Transporting Traffic Signal and Intersection Lighting Materials Drexel Avenue	LS

Payment is full compensation for transporting the anchor rods, monotube poles/arms and luminaire arms (to be installed on monotubes). Installation of these materials is included under a separate pay item.

65. Video Detection System Lathrop Avenue, Item SPV.0105.07; Video Detection System Taylor Avenue, Item SPV.0105.08; Video Detection System Drexel Avenue, Item SPV.0105.09.

A Description

This specification sets forth the minimum requirements for a system that detects vehicles on a roadway using only video images of vehicle traffic.

B Materials

B.1 System Hardware

The video detection system shall consist of one to six video cameras, a video detection processor (VDP) capable of processing from one to six video sources, and a pointing device.

B.2 System Software

The system shall include software that detects vehicles in multiple lanes using only the video image. Detection zones shall be defined using only an on board video menu and a pointing device to place the zones on a video image. Up to 144 detection zones shall be available. A separate computer shall not be required to program the detection zones.

B.3 Functional Capabilities

The VDP shall process video from up to 6 video sources simultaneously. The sources can be video cameras or S-VHS video tape players. The video shall be input to the VDP in RS170 format and shall be digitized and analyzed in real time. A separate microprocessor, for each video input, shall be used.

The VDP shall detect the presence of vehicles in up to 24 detection zones per camera. A detection zone shall be approximately the width and length of one car.

Detection zones shall be programmed via an on board menu displayed 9” video color monitor and a pointing device connected to the VDP. The menu shall facilitate placement of the detection zones quickly and easily. A separate computer shall not be required for programming detection zones.

The VDP shall store up to three different detection zone patterns. The VDP can switch to any one of the three different detection patterns within 1 second of user request via menu selection with the pointing device.

The VDP shall detect vehicles in real time as they travel across each detection zone.

The VDP shall have a communications port to an external computer. The VDP port shall be multi-drop capable.

The VDP shall accept new detection patterns from an external computer through the port when the external computer uses the correct communications protocol for downloading detection patterns.

The VDP shall send its detection patterns to an external computer through the port when requested when the external computer uses the correct communications protocol for uploading detection patterns.

B.4 Vehicle Detection

Up to 144 detection zones shall be supported and each detection zone can be sized to suit the site and the desired vehicle detection region.

Detection zones shall be capable of being Or’ed or ANDed together to indicate vehicle presence on a single detector output channel.

Placement of detection zones shall be done by using only a pointing device, and a graphical interface built into the VDP and displayed on a video monitor, to draw the detection zones on the video image from each video camera. No separate computer shall be required to program the detection zones.

Up to three detection zone patterns shall be saved for each camera within the VDP memory and this memory shall prevent loss during power outages or camera knock downs.

The selection of the detection zone pattern for current use shall be done through a menu. It shall be possible to activate a detection zone pattern from VDP memory and have that detection zone pattern available within 1 second of activation.

When a vehicle is detected crossing a detection zone, the corners of the detection zone will flash on the video overlay display to confirm the detection of the vehicle.

Detection shall be at least 98 percent accurate in good weather conditions, with slight degradation possible under adverse weather conditions (e.g. rain, snow, or fog) which reduce visibility. Detection accuracy is dependent upon camera placement, camera quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video due to camera location or quality. See section 5.12 for recommended camera placement.

The VDP shall provide 32 channels of detection through either a NEMA TS1 port or a NEMA TS2 port.

The VDP shall provide dynamic zone reconfiguration (DZR). DZR enables normal operation of existing detection zones when one zone is being added or modified during the setup process. The VDP shall output a constant call on any detector channel corresponding to a zone being modified.

Detection zones shall be directional to reduce false detections from objects traveling in directions other than the desired direction of travel in the detection area.

Detection zone setup shall not require site specific information such as latitude and longitude to be entered into the system.

Detection zone setup shall not require temporal information such as date and time.

The VDP shall process the video input from each camera using a separate microprocessor at 30 frames per second.

The VDP shall output a constant call for each enabled detector output channel if a loss of video signal occurs. The VDP shall output a constant call during the background learning period.

B.5 VDP Hardware

The VDP shall be housed in a durable metal enclosure suitable for shelf mounting or 19-inch rack mounting in a roadside traffic equipment cabinet. The VDP enclosure shall not exceed 7-inch height, 17.75-inch width, and 10.5-inch depth. The VDP shall be modular in construction with plug in field replaceable units (FRU’s) to minimize trouble shooting and repair time.

The VDP shall operate satisfactorily in a temperature range from –34 °C to +74 °C and a humidity range from 0 percent RH to 95 percent RH, non-condensing as set forth in NEMA specifications.

The VDP shall be powered by 120 VAC 60 Hz single-phase power. Surge ratings shall be as set forth in NEMA specifications. Power consumption shall not exceed 135 watts.

The VDP shall include an RS232 port for serial communications with a remote computer. The VDP RS232 port shall be multi-drop capable. This port shall be a 9 pin female "D" subminiature connector on the front of the VDP.

The VDP shall include ports for transmitting TS1 and TS2 detections to a traffic controller. The TS1 port shall be a 37 pin female “D” connector on the front of the VDP. The TS2 port shall be a 15 pin female “D” connector on the front of the VDP.

The front of the VDP shall include up to six BNC video input connections suitable for RS170 video inputs. Each video input shall include a switch selectable 75-ohm or high impedance termination to allow camera video to be routed to other devices, as well as input to the VDP for vehicle detection.

The front of the VDP shall include one BNC video output. Any one of the six video inputs shall be switch selectable for output on this BNC connection via the pointing device at the VDP, or through software and a personal computer connected through the RS-232 multi-drop port via a full duplex modem link.

The video inputs to the VDP shall include transient voltage suppression and isolation. Amplification that shall assure the 1-volt peak to peak video signal integrity is maintained despite video cabling losses and externally induced transients. The amplifier shall have a minimum common mode rejection at 60 Hz of 90 dB.

The VDP enclosure shall include provisions to be bonded to a good earth ground.

The front face of the VDP shall contain indications, such as LED displays, to enable the user to view real time detections for up to 8 detector output channels at a time.

B.6 Camera

The video cameras used for traffic detection shall be furnished by the VDP supplier and shall be qualified by the supplier to ensure proper system operation.

The camera shall produce a useable video image of the bodies of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.1 lux to 10,000 lux.

The camera shall use a CCD sensing element and shall output monochrome video with resolution of not less than 380 lines vertical and 380 lines horizontal.

The camera shall include an electronic shutter control lens. The camera shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry. A single camera configuration shall be used for all approaches in order to minimize the setup time and spares required by the user.

The camera electronics shall include AGC to produce a satisfactory image at night.

The camera shall be housed in a weather-tight sealed enclosure. The housing shall be adjustable to allow proper alignment between the camera and the traveled road surface.

The camera enclosure shall be equipped with a sun shield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view. The camera enclosure with sunshield shall be less than 5-inch diameter, less than 14-inch long, and shall weigh less than 5 pounds when the camera and lens are mounted inside the enclosure.

The camera enclosure shall include a thermostatically controlled heater to assure proper operation of the lens shutter at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure.

When mounted outdoors in the enclosure, the camera shall operate satisfactorily in a temperature range from –34°C to +*60*°C and a humidity range from 0 percent RH to 100 percent RH.

The camera shall be powered by 120 VAC 60 Hz. Power consumption shall be 15 watts or less under all conditions.

Recommended camera placement height shall be 33 feet (or 10 meters) above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 350 feet for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.

The camera enclosure shall be equipped with separate, weather-tight connections for power and video cables at the rear of the enclosure. These connections may also allow diagnostic testing and viewing of video at the camera while the camera is installed on a mast arm or pole using a lens adjustment module (LAM) supplied by the VDP supplier. Video and power shall not be connected within the same connector.

The video signal output by the camera shall be color in RS170 or CCIR format. The video signal shall be fully isolated from the camera enclosure and power cabling.

B.7 Installation

The coaxial cable to be used between the camera and the *VDP* in the traffic cabinet shall be Belden 8281 or a 75 ohm, precision video cable with 20 gauge solid bare copper conductor (9.9 ohms/M), solid polyethylene insulating dielectric, 98 percent (min) tinned copper double-braided shield and black polyethylene outer covering. The signal attenuation shall not exceed 0.78 dB per 100 feet at 10 MHz. Nominal outside diameter is 0.304 inches. The coax cable shall be a continuous unbroken run from the camera to the VDP. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. 75-ohm BNC plug connectors should be used at both the Camera and Cabinet ends.

The supplier of the video detection system shall approve the coaxial cable, BNC connector, and crimping tool, and the manufacturer's instructions must be followed to ensure proper connection.

The power cabling shall be 16 AWG three conductor cable. The cabling shall comply with the National Electric Code, as well as local electrical codes.

The video detection system shall be installed by supplier factory certified installers and as recommended by the supplier and documented in installation materials provided by the supplier.

B.8 Warranty

Warranties longer than the one-year contractor performance bond shall be provided by the manufacturer.

During the warranty period, technical support shall be available from the supplier via telephone within 4 hours of the time a call is made by a user, and this support shall be available from factory-certified personnel or factory-certified installers.

During the warranty period, updates to VDP software shall be available from the supplier without charge.

B.9 Maintenance and Support

The supplier shall maintain an adequate inventory of parts to support maintenance and repair of the video detection system. These parts shall be available for delivery within 30 days of placement of an acceptable order at the supplier's then current pricing and terms of sale.

The supplier shall maintain an ongoing program of technical support for the video detection system. This technical support shall be available via telephone, or via personnel sent to the installation site upon placement of an acceptable order at the supplier's then current pricing and terms of sale for on-site technical support services. Installation or training support shall be provided by a factory authorized representative.

C Construction

Install equipment as shown on the plans and as specified in this special provision.

D Measurement

The department will measure Video Detection System (location) as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.7	Video Detection System Lathrop Avenue	LS
SPV.0105.8	Video Detection System Taylor Avenue	LS
SPV.0105.9	Video Detection System Drexel Avenue	LS

Payment is full compensation for furnishing and installing hardware, fasteners, cameras, cabling, mounting brackets, making all necessary connections, and testing and setting up the system.

66. Microwave Based Traffic Sensor Lathrop Avenue, Item SPV.0105.10; Microwave Based Traffic Sensor Taylor Avenue, Item SPV.0105.11; Microwave Based Traffic Sensor Drexel Avenue, Item SPV.0105.12.

A Description

Work under this item shall consist of furnishing and installing a microwave-based sensor that shall detect trucks, vehicles, motor cycles and bicycles and send a signal representative of a loop type detector in a presence mode to a traffic controller device. The sensor shall be easily installed and shall set up as shown on the plans and as hereinafter provided.

The sensor shall operate in the field under the effects of weather (rain, snow, fog), sun rays, night problems and head light glare.

B Materials

B.1 Environmental/Power Requirements

1. The sensor shall function in the field without any degradation of operation with the following temperature ranges: -40° C to +85° C.
2. The sensor plus interface board shall operate with 24DVC supplied to the TCIB interface card and require no other power supplies. Total current shall be no more than 415mA at any time during operation with no output active.
3. Operation shall be within 20 seconds from a cold start up. Full operation shall be no greater than 2 minutes and provide for full automatic recovery from a power failure.
4. The sensor unit shall be FCC approved.

B.2 Physical Description

The sensor shall weigh no more than 5.5 pounds, and be no more than 11 inches long, 8.5 inches wide and 7 inches high.

B.3 Operation

1. The sensor shall be a microwave-based motion and presence sensor used for intersection control. The sensor shall interface with a traffic signal control cabinet and shall output signals when vehicles are represented in user defined zones. These zones shall be able to be created by using an X-Y coordinate system, and have the operation verified and optimized using a laptop with Internet Explorer TM 6.0 or greater as part of the installation process or resident on the PC.
2. The sensor shall allow the user to create up to eight zones and assign vehicle presence in each of these zones and up to four outputs to the control cabinet. Detection zones shall be able to be created to a maximum distance of 300 feet from the sensor location.
3. The sensor shall track the presence of a vehicle in a detection zone for a predetermined time, user selectable from 0 to 960 seconds.
4. The sensor shall be able to track multiple moving and stationary vehicles simultaneously.
5. Each vehicle shall be tracked using its X-Y coordinates to determine the vehicles location.
6. The sensor shall update the X-Y coordinates 20 times per second.
7. The range of operation shall be from 50 feet to 400 feet from the front of the sensor.
8. The sensor shall be able to program eight independent zones and provide up to four independent optical isolated outputs to the controller cabinet inputs via one of three optional sensor interface boards.
9. The sensor shall be able to determine and display the speed of each vehicle in the detection zones.
10. The sensor shall be able to provide grid tracking for the live interactive zones.
11. The sensor shall be able to provide a histogram to verify setup of the zones.
12. The sensor interface shall use either English (standard) or metric units at the option of the user.
13. The sensor shall be able to provide user defined delay and/or extension times for each zone.
14. The sensor Explorer interface shall be able to provide a graphical representation of the vehicle track as they approach the intersection.
15. The sensor shall provide a diagnostic and demonstration mode for various operations.
16. The sensor shall operate via an Ethernet interface with power supplied over the Ethernet connector (POE).

B.4 MOUNTING

1. The sensor shall be mounted on the monotube arm or on the side of a pole at a minimum height from 14 feet for stop bar detection and a minimum height of 17 feet for advanced detection for optimal performance.

2. When mounted on the side of the pole a maximum 30 degree offset from the traffic direction shall be allowed to provide for optimal operation.
3. Mounting hardware shall be supplied with each sensor to allow the device to be attached to a pole with standard stainless steel strapping bands.

B.5 RADAR

1. The sensor shall support five (5) selectable channels of microwave operation and operate in the FSK-4 mode. 24.075 GHz, 24.100 GHz, 24.125 GHz, 24.150 GHz, 25.175 GHz.
2. The beam angle shall be an Azimuth of 25 degrees to 100 feet, and then 20 degrees out to 400 feet. The elevation shall be 12 degrees.

B.6 INTERFACE BOARDS

1. Interface boards shall be available for the sensor and shall be compatible with NEMA TS-1 and TS-2, 170, 179 and 2070 cabinets. For each sensor one interface board shall be required per specifications.
2. The Interface board shall communicate with the controller cabinet. The interface boards shall meet with the requirements of CALTRANS 170/2070 222 and 224 modules with respect to size and form.
3. There shall be three optional interface boards available with the following functions:
    a. There shall be four output Interface Boards that fits in a single input file slot.
4. The interface boards shall operate at 24DVC and provide the power supply for the sensor over the Ethernet cable.
5. The Interface boards shall have up to four LED’s to indicate the activity of each zone. (Only two LEDs are active on the 2 channel board).
6. Each output shall be optically isolated with a LED and status indicator.
7. There shall be an indication for a fault mode (no Ethernet connection) such that all LEDs and Opto-isolator are on. This action shall place calls on the traffic controller.
8. There shall be an RS-232 port for diagnostics on each Interface boards.
9. The Interface boards shall provide power and short circuit protection for the sensor.
10. The Interface board shall automatically recover from a power failure and start up within 20 seconds of a cold start.
11. The Interface board shall be hot swappable and shall be able to be plugged in and out of the input file slot without adversely effecting its operation. (Unplugging of the Interface board shall take power off the Interface board and off the sensor).

C Construction

Install equipment as shown on the plans and as specified in this special provision.

D Measurement

The department will measure Microwave Based Traffic Sensor (Location) as a single lump sum unit of work for each intersection, acceptably completed.

H Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.10	Microwave Based Traffic Sensor Lathrop Avenue	LS
SPV.0105.11	Microwave Based Traffic Sensor Taylor Avenue	LS
SPV.0105.12	Microwave Based Traffic Sensor Drexel Avenue	LS

Payment is full compensation for furnishing and installing hardware, fasteners, cameras, cabling, mounting brackets, making all necessary connections, and testing and setting up the system.

67. Remove Loop Detector Wire and Lead-in Cable Lathrop Avenue, Item SPV.0105.13; Remove Loop Detector Wire and Lead-in Cable Taylor Avenue, Item SPV.0105.14; Remove Loop Detector Wire and Lead-in Cable Drexel Avenue, Item SPV.0105.15.

A Description

This special provision describes removing loop detector wire and lead-in cable at the Lathrop Avenue, Taylor Avenue, and Drexel Avenue intersections. Removal will be according to standard spec 204, as shown in the plans, and as hereinafter provided.

B (Vacant)

C Construction

Notify Ara Molitor, City of Racine, at (262) 636-9487 at least five working days prior to the removal of the loop detector wire and lead-in cable.

Remove and dispose of detector lead-in cable including loop wire for abandoned loops off the right-of-way.

D Measurement

The department will measure Remove Loop Detector Wire and Lead-in Cable (location) as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.13	Remove Loop Detector Wire and Lead-in Cable Lathrop Avenue	LS
SPV.0105.14	Remove Loop Detector Wire and Lead-in Cable Taylor Avenue	LS
SPV.0105.15	Remove Loop Detector Wire and Lead-in Cable Drexel Avenue	LS

Payment is full compensation for removing, scrapping, and disposing of material and incidentals necessary to complete the contract work.

68. Audible Pedestrian Signal System Lathrop Avenue, Item SPV.0105.16; Audible Pedestrian Signal System Taylor Avenue, Item SPV.0105.17; Audible Pedestrian Signal System Drexel Avenue, Item SPV.0105.18.

Work under this item shall consist of furnishing and installing an Audible Pedestrian Signal System. The system shall consist of all electronic control equipment, mounting hardware, push buttons and signs, which are designed to provide both a push button with a raised vibrating tactile arrow on the button, along with a variety of audible sounds for different pedestrian signal functions.

A 2 Wire APS system consists of push button stations installed on poles with existing pairs of button wires, and a Central Control Unit installed in the traffic cabinet. The Central Control Unit powers the push button stations over the 2 wires and uses digital data to communicate with each push button station over the two low voltage button wires.

A 2 Wire System must include a Central Control Unit in the cabinet.

Substantiating documentation for meeting ISO, NEMA, IEC, and FCC requirements must be supplied from an outside Testing Services Laboratory.

A Description

(1) The System shall consist of a Central Control Unit, Polara model number iCCU-S and Pedestrian Push Button Stations, Polara model number iN2, as described below, and an iOS device w/ the iOS client application or Windows PC with BLE dongle and Windows client application, for programming the system settings.

(2) The System shall be manufactured by an ISO 9001:2008 (minimum) registered company.

(3) The System shall meet the requirements of Made in America and/or The Buy American Act.

B Materials

B.1 Design Compliance

(1) The System shall meet the functionality requirements of MUTCD 2009 – 4E and CAMUTCD 2011 – 4E.

(2) The System shall meet NEMA TS 2 Section 2.1 Temperature & Humidity requirements, or TS4 equivalent.

(3) The System shall meet NEMA TS 2 Section 2.1 Transient Voltage Protection requirements, or TS4 equivalent.

(4) The System shall meet NEMA TS 2 Section 2.1 Mechanical Shock and Vibration requirements, or TS4 equivalent.

(5) The System shall meet IEC 61000-4-4, IEC 61000-4-5 Transient Suppression requirements.

(6) The System shall meet FCC Title 47, Part 15, Class A Electronic Noise requirements.

(7) The Push Button Station (PBS) Enclosure shall meet NEMA 250 – Type 4X requirements.

(8) The Central Control Unit (CCU) Enclosure shall meet NEMA 250 – Type 1 requirements.

B.2 Functional Requirements

(1) The System shall support at least 16 PBSs per intersection (on at least 1 channel) controlled by a single base unit located in the traffic control cabinet.

(2) The System shall be able to be set to vibrate a tactile arrow button during the WALK interval following a button push and/or every time the walk comes up.

(3) The System shall have the field-selectable function known as “LOCATE TONE”. This means that during the FLASHING DON’T WALK and the DON’T WALK intervals, the system shall provide a locating tone that emanates from the Pedestrian Push Button Station. The system shall provide at least 3 different sounds to choose from.

(4) The System shall have the field selectable function known as “Extended Push Activation”. This is defined as the audible WALK message shall only be activated and audible during the WALK interval if the button is depressed for a field selectable minimum period of time (from 0.5 to 6 seconds). Also, for the following walk and clearance intervals, the volumes have a separately settable minimum and maximum volume level.

(5) The System shall have the field selectable function known as “Informational Message”. This means that a custom message giving the location of the street to cross and the intersection (or other information) will be vocalized only when the button is depressed for a minimum field selectable time.

(6) The System shall provide a “Wait” message that plays once the button is activated until the Walk cycle goes into effect. This message must have the field selectable option of OFF or repeating every 4, 6, 8 or 10 seconds.

(7) The System shall have standard “Travel Direction” options that can be selected at the time of installation.

(8) The System shall have at least 10 field selectable WALK sound options including a cuckoo, a chirp, an MUTCD rapid tick or custom voice message.

(9) The System shall provide at least 7 Ped-clearance sound choices including audible countdown (field selectable). The audible countdown shall represent the time remaining during the pedestrian Clearance interval. Timing is automatically adjusted to the CLEARANCE INTERVAL timing, provided by the traffic controller.

(10) The System shall provide two language capabilities, selectable by user (as a field selectable feature).

(11) The System shall provide an Emergency preemption message in conjunction with a preemption system (selectable feature).

(12) The System LOCATE TONE, WALK, and DON’T WALK audible features shall have independent assignable minimum and maximum volume limits. CLEARANCE volume level shall be controlled by WALK volume setting.

(13) All sounds for all PBSs shall be synchronized.

(14) The System shall have a non-visible, ambient sensing microphone located in the pedestrian station in an environmentally protected housing.

(15) The LOCATE TONE volume shall adjust automatically in response to ambient noise with field selectable adjustment levels from -30dB below to +20dB above ambient in 2.5dB increments.

(16) All other sounds volumes shall adjust automatically in response to ambient noise with field selectable adjustment levels from -30dB below to +20dB above ambient in 5dB increments.

(17) The System shall utilize high quality digital audio technology, with a minimum 16-bit sample at a 48 kHz sample rate.

(18) The PBS firmware and voice messages shall be updatable via Bluetooth. There shall be no requirement for the IC chips or module hardware to be removed or exchanged in order to complete a firmware or audio update.

(19) The System shall have the option to mute sounds on all crosswalks except activated crosswalk (selectable feature).

(20) The System shall have a real time clock capable of keeping time when there is no system power, for at least 2 years from the date of manufacture.

(21) The System shall have the ability to have four separate program configurations with all features available, and any single configuration can be selected through an external input.

(22) The System shall provide a user settable calendar function, allowing four separate configuration profiles to be configured to become active at different times of the day on a daily, weekly, or holiday basis.

(23) The entire System shall be configurable from any PBS over Bluetooth.

(24) The entire System shall be configurable from the CCU over Wi-Fi or Ethernet.

(25) All field access to selectable options using a Bluetooth, Wi-Fi or Ethernet devices shall be protected using password security.

B.3 Central Control Unit (CCU)

(1) The CCU-S shall be installed inside the Traffic Cabinet and powered by the AC supply mains (115 VAC).

(2) The CCU-C shall be installed inside the 300 series Traffic Cabinet's Input File, replacing 2 PED isolator boards and receiving power from the rack (24VDC).

(3) The CCU-S shall provide internal power to operate up to 16 PBSs.

(4) A 24 volt power brick shall power up to 16 PBSs in a CCU-C configuration.

(5) The CCU shall control at least 16 PBSs.

(6) The CCU shall be logically configurable to assign any PBS to one of 16 traffic phases.

(7) The CCU-S shall receive pedestrian phase Walk, Don't Walk and Clearance inputs from either the traffic cabinet load switches or an SDLC input.

(8) The CCU-S shall be capable of operating as a NEMA TS2 Detector Rack Bus Interface Unit (BIU) in order to place PED calls over SDLC.

(9) The CCU-C shall receive pedestrian phase Walk, Don't Walk and Clearance inputs from a Transport Electrical Equipment Specification (TEES) C4S connector.

(10) The CCU shall be able to self-test all PBSs and put a corresponding phase into recall should a PBS assigned to a phase fail the self-test.

(11) The CCU-S shall provide optically isolated general purpose inputs.

(12) The CCU-S shall be used with a 4-cable interface harness, or SDLC cable, or both.

(13) The CCU shall have internal storage to log several hundred events with a date-time stamp for each event.

(14) The CCU shall have an internal real-time clock capable of being set in the field and propagating the time to each connected PBS.

(15) The CCU firmware shall be updatable via either Wi-Fi or Ethernet. There shall be no requirement for the IC chips or module hardware to be removed or exchanged in order to complete the firmware update.

(16) The CCU shall monitor PED interval conflicts, and signal affected PBSs to an off state when a conflict occurs.

(17) The CCU-S shall meet NEMA 250 – Type 1 enclosures requirements.

(18) The CCU shall have a backlit LCD screen and button interface to allow placing test calls and display status.

B.3 Pedestrian Push Button Station (PBS)

(1) The PBS shall be mounted to a pole by banding or bolting.

(2) The PBS shall be a single fixture that contains a 2” activation area, in which resides an ADA compliant vibrotactile push button with a raised directional tactile arrow, and a sign mounted above the button.

(3) The PBS Speaker shall be 8 Ohms, 6 Watt, and weather-proof.

(4) The button shall be cast aluminum, nickel-plated and powder coated black around the arrow, to provide high contrast to arrow color. The PBS arrow shall allow for change in orientation to one of four directions.

(5) The PBS Arrow Button Actuation shall use Hall Effect Sensor technology rated to greater than 20 million operations.

(6) The PBS Arrow Button Push Force shall have three adjustable pressure settings between approximately 1 and 3lbs to activate a button push.

(7) The PBS Arrow Button shall pulse and vibrate at approximately 20 Hz with displacement factor based on pounds of force used to actuate.

(8) The PBS shall have a rear facing speaker projecting sound from front and back, providing 360º omnidirectional sound performance.

(9) The PBS shall include internal Conflict Monitoring that monitors WALK, and DON’T WALK input signals for conflict conditions; disables system operation and logs errors if conflict occurs.

(10) The PBS firmware and voice messages shall be updatable via Bluetooth. There shall be no requirement for the hardware to be changed out to update.

(11) The system shall operate with the vendor’s client application to record and upload cumulative ped count and call data.

(12) The PBS shall meet or exceed NEMA 250 type 4X enclosure requirements.

(13) The PBS Construction shall be:

a. FRAME: Cast Aluminum, Powder Coated.

b. HOUSING: Reinforced, UL-listed Thermoplastic.

c. MESSAGE SIGN: Aluminum, Powder Coated, Ink Markings, or Reflective Vinyl Sheeting

d. PUSH BUTTON: Aluminum, Powder Coated.

(14) Electronic circuits (printed circuit board assemblies) shall be in a water-tight housing/enclosure or encapsulated with a thermoplastic polyamide having a UL94-V0 flammability rating and allowing light and RF transmissions (i.e. over-molded), for environmental protection. The housing/closure or encapsulation shall be capable of providing NEMA 250 4X protection to all covered components.

(15) The PBS Message Marking at the time of order may specify the Message Sign Markings to be the International Walking Person or the Informational Explanations for the three distinct pedestrian displays (WALK, DON’T WALK, and PED CLEAR) that a pedestrian would see on an active pedestrian signal.

B.4 Field Programming

(1) The iOS and PC applications shall be upgradable.

(2) The iOS and PC applications shall notify the user when a newer version of the client application is available.

(3) The iOS and PC applications shall notify the user when newer PBS and CCU firmware is available.

(4) The iOS and PC applications shall provide the mechanism to download the latest PBS and CCU firmware.

(5) The iOS and PC applications shall be capable of setting all volumes and features of the APS system specific to the PBSs.

(6) The iOS and PC applications shall be capable of setting/updating configuration options for a single PBS or all PBSs on the intersection for most functions from a single PBS or CCU. (Global updating).

(7) The iOS and PC applications shall be capable of storing, modifying, loading, and emailing PBS configuration settings.

C Construction

Install equipment as shown on the plans and as specified in this special provision.

D Measurement

The department will measure Audible Pedestrian Signal System (location) as a single lump sum unit of work for each intersection, acceptably completed.

H Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.16	Audible Pedestrian Signal System Lathrop Avenue	LS
SPV.0105.17	Audible Pedestrian Signal System Taylor Avenue	LS
SPV.0105.18	Audible Pedestrian Signal System Drexel Avenue	LS

Payment is full compensation for furnishing and installing all electronic control equipment, mounting hardware, push buttons, signs, making all necessary connections, and testing and setting up the system.

69. Removing Business Sign 4125 Durand Avenue, Item SPV.0105.19; Removing Business Sign 4006 Durand Avenue, Item SPV.0105.20; Removing Business Sign 3317 Durand Avenue, Item SPV.0105.21.

A Description

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

B (Vacant)

C Construction

Contact business owner 10 days prior to start of the removal work. Provide removed sign to the business owner, if they want it, otherwise dispose it according to the pertinent provisions of standard spec 204.

D Measurement

The department will measure Removing Business Signs (location) as a single lump sum unit of work for each location, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.19	Removing Business Sign 4125 Durand Avenue	LS

SPV.0105.20	Removing Business Sign 4006 Durand Avenue	LS
SPV.0105.21	Removing Business Sign 3317 Durand Avenue	LS

Payment is full compensation for removing the sign, providing it to business owner, or disposing it off site, removing concrete base, backfilling, and restoring the area occupied by the sign base.

70. Water for Seeded Areas, Item SPV.0120.01.

A Description

This special provision describes furnishing, hauling and applying water to seeded and sodded areas as directed by the engineer, and as hereinafter provided.

B Materials

When watering seeded and sodded areas, use clean water, free of impurities or substances that might injure the seed or sod.

C Construction

If rainfall is not sufficient, keep all seeded and sodded areas thoroughly moist by watering or sprinkling. Water for 30 days after seed and sod placement or as the engineer directs. Apply water in a manner to preclude washing or erosion. Do not leave the topsoil un-watered for more than 3 days during the 30-day period unless the engineer determines that it is excessively wet and does not required watering. The equivalent of 1 inch of rainfall per week is considered the minimum.

D Measurement

The department will measure Water for Seeded Areas by volume in thousand gallons, acceptably completed. The department will determine volume by engineer-approved meter or from tanks of known capacity.

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 Seeded Areas	MGAL

Payment is full compensation for furnishing, hauling, and applying water to the seeded and sodded areas.

71. Wall Modular Block Gravity Landscape Wall A, Item SPV.0165.01; Wall Modular Block Gravity Landscape Wall B, Item SPV.0165.02.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system in accordance 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. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract. The location of the plant manufacturing the facing units shall be furnished to the engineer at least 14 days prior to the project delivery.

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 in accordance 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 in accordance with Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls in accordance 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 in accordance with 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 in accordance with 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 in accordance with 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 concrete leveling pad or base aggregate leveling pad. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Concrete leveling pads 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.

Base aggregate leveling pads shall be as wide as the blocks plus 12 inches, and the modular blocks shall be centered on the leveling pad. The minimum thickness of the leveling pad shall be 12-inches after compaction. The leveling pad shall be made from base aggregate dense 1 1/4-inch in conformance with standard spec 305.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All 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 in accordance with 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.

For 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.

For base aggregate leveling pad conform to item 305.0120 Base Aggregate Dense 1 1/4-Inch.

B.3.2 Material Testing

Provide independent quality verification testing of project materials according to the following requirements:

Test	Method	Requirement	
		Dry-cast	Wet-cast
Compressive Strength (psi)	ASTM C140	5000 min.	4000 min.
Air Content (%)	AASHTO T152	N/A	6.0 +/-1.5
Water Absorption (%)	ASTM C140	6 max.[3]	N/A
Freeze-Thaw Loss (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262[1]	1.0 max.[2][3] 1.5 max.[2][3]	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] The independent testing laboratory shall control and conduct all sampling and testing. Prior to sampling, the manufacturer's representative 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. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. At no expense to the department, the contractor shall remove all rejected blocks from the project. If a random sample of five blocks of any lot tested by the department fails to meet any of the above testing requirements, the entire lot will be considered non-conforming.

The contractor and fabricator shall coordinate with the independent testing agency 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.

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 and lot size

Testing of project materials shall be completed not more than 18 months prior to delivery. Independent testing frequency shall not exceed 5000 blocks for dry-cast blocks and the lesser of 150 CY or one day's production for wet-cast blocks. The certified 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 certified test 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.3.3 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 standard spec 209.2.2. 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 in accordance 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

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 in accordance with the manufacturer’s directions.

C.4 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan.

D Measurement

The department will measure Wall Modular Block Gravity Landscape by the square foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Wall Modular Block Gravity Landscape Wall A	SF
SPV.0165.02	Wall Modular Block Gravity Landscape Wall B	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.

72. Concrete Sidewalk Thickened Edge, Item SPV.0165.03.

A Description

Perform work according to the applicable provisions of standard spec 504 and as detailed in the plans.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Concrete Sidewalk Thickened Edge 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.0165.03	Concrete Sidewalk Thickened Edge	SF

Payment is full compensation for providing all materials, including all concrete and steel reinforcement; for all excavating, for backfilling, disposing of surplus material, and for cleaning out and restoring the work site.

73. Remove and Replace Brick Pavers, Item SPV.0165.04.

A Description

This special provision describes removing and installing existing brick pavers on a base aggregate dense base and sand setting bed. The base aggregate dense base shall be per the pertinent provision of standard spec 305.

B Materials

Salvaged brick pavers.

Granular material base course according to standard spec 350.

Leveling Course shall be natural sand or sand manufactured from crushed rock and conform to the grading requirements of ASTM C 33 as shown below.

Leveling Course Grading Requirements

ASTM C33	
Sieve Size	**Percent Passing**
9.5 mm	100
4.75 mm	95 to 100
2.36 mm	85 to 100
1.18 mm	50 to 85
600 um	25 to 60
300 um	10 to 30
150 um	2 to 10

Joint Sand shall be clean, non-plastic, and free from deleterious or foreign matter. The sand shall be natural or manufactured from crushed rock and shall conform to the grading requirements of ASTM C 144 as shown below:

Joint Sand Grading Requirements

ASTM C 144		
	Natural Sand	**Manufactured Sand**
Sieve Size	**Percent Passing**	**Percent Passing**
4.75 mm	100	100

ASTM C 144		
	Natural Sand	Manufactured Sand
Sieve Size	Percent Passing	Percent Passing
2.36 mm	95 to 100	95 to 100
1.18 mm	70 to 100	70 to 100
600 um	40 to 75	40 to 75
300 um	10 to 35	20 to 40
150 um	2 to 15	10 to 25
75 um	0	0 to 10

C Construction

Install geotextile over base aggregate dense base surface and wrap up edges 1 inch. Spread leveling course evenly and screed. Set pavers high enough to allow for settling that will occur during final compaction. The screeded leveling course shall not be disturbed. Place sufficient leveling course in order to stay ahead of the laid pavers. Do not use leveling course to fill depressions in the base surface. Pavers shall be free of foreign material before installation. Lay the pavers in the patterns that matches with the existing pattern and make adjustments allow for whole paver use as often as possible. Maintain straight pattern lines. Joints between the pavers shall be between 1/16 inch and 5/32 inch wide. Pavers shall be cut with a double blade paver splitter or masonry saw.

Sweep the paver surface clean of all debris before compacting, in order to avoid damage from point loads. Use low amplitude, high frequency plate compactor with compactive effort of 3000 lbs. to compact the pavers into the leveling course. Compact the pavers and sweep dry joint sand and joint sand stabilizer additive into the joints according to manufacturer's recommendations. All work to within 3 feet of the laying fact must be left fully compacted with sand-filled joints at the completion of each day.

D Measurement

The department will measure Remove and replace Brick Pavers by 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.0165.04	Remove and Replace Brick Pavers	SF

Payment is full compensation for removing pavers from the area shown on plans, furnishing all incidental materials, including granular (sand) leveling course material, geotextile, joint sand and additive, cleaning and storing removed pavers, installing, and finishing.

The department will pay separately for base aggregate dense.

74. Shredded Hardwood Bark Mulch, Item SPV.0180.01.

A Description

This special provision describes furnishing and installing Shredded Hardwood Bark Mulch according to the applicable sections of standard spec 632 and as hereinafter provided.

B Materials

Provide Shredded Hardwood Bark Mulch that is finely shredded hardwood bark mulch and the product of a mechanical chipper, hammermill, or tub grinder.

Provide fibrous wood mulch, uniformly dark brown in color, free of large wood chunks, and substantially free of mold, dirt, sawdust, and foreign material. Ensure that no portion of the material is in an advanced state of decomposition.

Provide fibrous wood mulch not containing manufactured boards or chemically treated wood, including but not limited to wafer board, particle board, and chromated copper arsenate (CCA) or penta-treated wood. Ensure that the material does not contain bark of black walnut trees.

Provide air dried mulch, passing a 4-inch screen, with no more than 20 percent by mass passing a 0.10-inch sieve. Ensure that unattached bark or greenleaf composition, either singly or combined, do not exceed 20 percent each by mass. The maximum length of individual pieces cannot exceed 4 inches.

C Construction

Install mulch according to standard spec 632.3.9 to depth indicated in plans.

Do not use any weed barrier fabric in mulch areas.

Do not damage plants, structures, and/or other materials already in place, when placing the mulch.

D Measurement

The department will measure Shredded Hardwood Bark Mulch 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	Shredded Hardwood Bark Mulch	SY

Payment is full compensation for furnishing and installing all materials.

75. Management of Solid Waste, Item SPV.0195.01.

A General

A.1 Description

This work will conform with the requirements of standard spec 205 of the Standard Specifications; to pertinent parts of the Wisconsin Administrative Code, Chapters NR 700-736 Environmental Investigation and Remediation of Environmental Contamination; Wisconsin Administration Code, Chapters NR 500-538, Solid Waste; and as shown on the plans and as supplemented herein.

Soil containing chlorinated solvents will be encountered within the construction limits. The solid waste may contain NR 500 non-exempt industrial wastes including soil mixed with foundry sand. Impacted waste material excavated during construction which cannot in the opinion of the environmental consultant be managed as common excavation or as petroleum-contaminated soil will be managed as solid waste.

This work consists of excavating, segregating, temporary stockpiling, loading, hauling, and disposing of solid waste material at a WDNR-approved disposal facility. The nearest WDNR-approved disposal facilities are:

Republic Services Kestrel Hawk Landfill
1989 Oakes Rd.
Racine, WI 53406
(262) 884-7081

Waste Management Pheasant Run RDF Landfill
10712 South 124th Street
Bristol, WI 53104
(800) 963-4776

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI 53150
(414) 529-1360

Provide information to the environmental consultant and engineer that indicates the WDNR-approved disposal facility that the contractor will use.

A.2 Notice to the Contractor-Solid Waste Locations

The department and others completed hazardous materials assessment for locations within this project where excavation is required. Investigation for soil contamination was conducted at several locations. Results indicate that solid waste (soil contaminated with chlorinated solvents) is present at the following locations as shown on the plans:

1. Station 121+50 to 123+10, from reference line to project limits right, from approximately 1 to 8+ feet bgs. Approximately 638 cubic yards (approximately 1085 tons at an estimated 1.7 tons per cubic yard) of solid waste soil will be excavated from this area.
2. Station 122+00 to 123+00, from reference line to project limits left, from approximately 1 to 16+ feet bgs. Soil at this location contains foundry sand. Approximately 16 cubic yards (approximately 28 tons at an estimated 1.7 tons per cubic yard) of non-exempt solid waste will be excavated from this area.

Directly load solid waste soil excavated by the project at the above location into truck that will transport the material to a WDNR-licensed landfill facility for landfill disposal.

If obviously contaminated soils or signs of NR 500 non-exempt solid waste and hazardous materials are unexpectedly encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Examples of these unexpected conditions may include, but are not limited to, buried containers or tanks, noxious odors and fumes, stained soils, sheen on ground water, other industrial wastes, and significant volumes of municipal or domestic garbage.

No active groundwater monitoring wells were observed within the construction limits. If active groundwater monitoring wells are encountered during construction, notify engineer and protect them to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

If dewatering is required at the above location, conduct the dewatering according to Section C below.

A.3 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities in these areas contact:

Name: Andrew Malsom
Address: 141 NW Barstow Street, Waukesha, WI 53187-0798
Phone: (262) 548-6705
Fax: (262) 548-6891
E-mail: andrew.malsom@dot.state.wi.us

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: TRC Environmental Corporation
Address: 150 N. Patrick Blvd. Ste. 180, Brookfield, WI 53045
Contact: Bryan Bergmann
Phone: (262) 901-2126
Fax: (262) 879-1220
E-mail: bbergmann@trcsolutions.com

The role of the environmental consultant will be limited to:

(5) Determining the location and limits of solid waste to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;

(6) Identifying soils to be hauled to the landfill facility;

(7) Documenting that activities associated with management of solid waste are in conformance with the solid waste management methods for this project as specified herein; and

(8) Obtaining the necessary approvals for disposal of solid waste from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the area of solid waste fill described in A.2 to the environmental consultant. Identify the WDNR licensed landfill facility that will be used for disposal of solid waste and provide this information to the environmental

consultant no later than 30 calendar days prior to commencement of excavation in the impacted area or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of the solid waste.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation in the impacted area. Notify the environmental consultant at least three calendar days prior to commencement of excavation in the impacted area. Perform excavation in the impacted area on a continuous basis until excavation work is completed. Do not transport soil containing solid waste offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements

Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter historic fill contaminated with industrial waste (foundry sand) and associated regulated metals and organic compounds. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each impacted area as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

Control operations in the impacted area to minimize the quantity of soil excavated.

The environmental consultant will periodically monitor soil excavated from the area identified in A.2 above. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul solid waste soil designated by the environmental consultant for offsite disposal to the WDNR approved landfill facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of the material. Prior to transport, sufficiently dewater soils designated for off-site disposal so as not to contain free liquids.

Verify that the vehicles used to transport material are licensed for such activity according to applicable state and federal regulations. Obtain the necessary disposal facility approvals and WDNR approvals for disposal. Do not transport regulated solid waste off-site without obtaining the approval of the environmental consultant and engineer and notifying the disposal facility.

During excavations in the areas of known contamination, larger chunks of clean concrete (approximately 2 cubic feet), asphalt and bricks shall be segregated from the fill, to the extent practical and managed as common excavation. Under NR 500.08 this material is exempt from licensing and requirements of Wisconsin Administrative Code NR 500-538 of the solid waste regulations and will be reused as designated by the engineer as fill on the project, or it will be disposed of off-site at the contractor’s disposal site(s).

If dewatering is required in areas of known contamination, water generated from dewatering activities may contain petroleum compounds and/or metals. Such water may require analytical testing, and with approval of the City of Racine Wastewater Utility be discharged to the sanitary sewer as follows:

1. Meet all applicable requirements of the City of Racine Wastewater Utility including the control of suspended solids. Perform all necessary monitoring to document compliance with the City of Racine Wastewater Utility requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with the City of Racine Wastewater Utility requirements.
2. Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

Notify the engineer of any dewatering activities and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

Costs associated with excavation dewatering in contaminated areas are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of regulated solid waste from this construction project.

D Measurement

The department will measure Management of Solid Waste by the ton of waste, accepted by the disposal facility and as documented by weight tickets.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Management of Solid Waste	TON

Payment is full compensation for excavating, segregating, loading, hauling, and landfill disposal of solid waste; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; dewatering of soils prior to transport, if necessary.

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 __6__ *(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 __4__ *(number)* TrANS Apprentice(s) be utilized on this contract.

3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.

5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

I. RATIONALE AND SPECIAL NOTE

The $5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the $5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

II. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. *TRANS TRAINING*

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical 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

1. Description

a. The federal DBE program requirements outlined in the Code of Federal Regulations at 49 CFR Part 26 apply to this Wisconsin Department of Transportation contract. WisDOT is a recipient of federal funds and this contract includes federal funds. United States Department of Transportation Federal DBE Program requires the following provisions:

(1) Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE regulations will be considered a material breach of contract. This is non-negotiable. If a contractor fails to carry out the DBE program and Title VI nondiscrimination requirements of its contracts, the following sanctions will be assessed depending upon the facts, reasoning, severity and remedial efforts of the contractor: termination of contract, withholding payment, assessment of monetary sanctions, assessment of liquidated damages and/or suspension/debarment proceedings that may result in the disqualification of the contractor from bidding for a designated period of time.

(2) The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains the federal fund recipient's [DOT] written consent. Unless [WisDOT] consent is provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.

b. The Wisconsin Department of Transportation [WisDOT] is committed to the compliant administration of the DBE Program. Each WisDOT Secretary affirms this commitment with his/her signed assurance. https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/policy-statement.pdf

(1) The department encourages the contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts. Under the contract, the contractor agrees to provide the assistance to participating DBE's in the following areas:
   i. Produce accurate and complete quotes.
   ii. Understand highway plans applicable to their work.
   iii. Understand specifications and contract requirements applicable to their work.
   iv. Understand contracting reporting requirements.

(2) Wisconsin DOT 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, specified contract DBE goal by subcontracting work to a DBE or by procuring services or materials from a DBE. The department calculates the DBE participation as the dollar value of DBE participation included in the bid expressed as a percentage of the total contract bid amount.

(3) For more comprehensive information on the disadvantaged business program, visit the department's Civil Rights and Compliance Section website at: https://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx

2. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

a. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.

b. **DBE:** A small business certified as disadvantaged business enterprise (DBE) under the federal DBE program and included on the Wisconsin UCP DBE Directory deemed ready, willing and able.

c. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.

d. **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.

e. **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.

f. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

3. DBE Percentage Required at Bid Submission

Indicate the bid percentage (i.e. 0% through 100%) of DBE participation on the completed bidding proposal. For electronic submittals, show the percentage in the miscellaneous data folder, Item 3, DBE Percent. For paper submittals, show the percentage on the sheet included after the schedule of items. By submission of the bid, the bidder contractually commits to DBE participation at or above the bid percentage, or certifies that they have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, and that the bid percentage is reflective of these good faith efforts. The bid percentage should demonstrate the efforts of the prime contractor prior to bid. If the bidder does not indicate the bid percentage of DBE participation on the completed bidding proposal, the department will consider the bid irregular and may reject the bid.

4. WisDOT Interpretation of Federal DBE Program Provision

Prime contractors must utilize the specific DBEs listed to perform the work and/or supply the materials for which each is listed on the Commitment to Subcontract to DBE Form [DT1506] and approved by WisDOT's DBE office to execute its contract. The approved Commitment to Subcontract to DBE Form [DT1506] becomes a contract document/record.

a. **Department's DBE Evaluation Process**
WisDOT evaluates DBE using the Commitment to Subcontract to DBE, payments to subcontractors and contract documentation. The prime contractor shall list the specific DBE certified firms and items of work s/he intends to use toward the fulfillment of the assigned DBE contract goal. The prime contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved Form DT1506.

b. **Documentation Submittal**
The contractor is to identify, by name, the DBE firms whose utilization is intended to satisfy this provision, the items of work of the DBE subcontract or supply agreement and the dollar value of those items of work by completing the Commitment to Subcontract to DBE Form [DT1506]. Effective January 1, 2017, the contractor will be required to submit the documentation within 5 business days after bid opening. All necessary supporting documentation including Attachment 'A' forms and/or Good Faith Efforts Form

[DT1202] must be submitted no later than 2 business days from contractor's initial submission of the DT 1506. The contractor must provide a signed Attachment 'A' form to the DBE office within the time limit in order to receive authorization for contract execution; the DBE office reserves the right accept alternate documentation in lieu of the signed form in extenuating circumstances. Documentation must be submitted to the DBE Office by email at DBE_Alert@dot.wi.gov (DBE_Alert@dot.wi.gov) or by postal mail ATTN: DBE Office, PO Box 7965, Madison, WI 53707-7965.

(1) **Bidder Meets DBE Goal**
If the bidder indicates that the contract DBE goal is met, after award and before execution, the department will evaluate the Commitment to Subcontract to DBE Form DT1506 and attachment A(s) to verify the actual DBE percentage calculation. If the DBE commitment is verified, the contract is eligible for execution with respect to the DBE commitment.

(2) **Bidder Does Not Meet DBE Goal**

i. If the bidder indicates a bid percentage on the Commitment to Subcontract to DBE Form [DT1506] that does not meet the contract DBE goal, the bidder must submit a Good Faith Efforts Form [DT1202] and supporting documentation. After award and before execution, the department will evaluate the bidder's DBE commitment and consider the bidder's good faith efforts submission.

ii. The department will evaluate the bidder's good faith effort request and notify the bidder of one of the following:

(a) If the department grants a good faith efforts, the bid is eligible for contract execution with respect to DBE commitment.

(b) If the department rejects the good faith efforts request, the department may declare the bid ineligible for execution. The department will provide a written explanation of why the good faith efforts request was rejected. The bidder may appeal the department's rejection as allowed under 7 a. & b.

c. **Bidder Fails to Submit Documentation**
If the contractor fails to furnish the Commitment to Subcontract to DBE Form [DT1506] within the specified time, the department may cancel the award. Delay in fulfilling this requirement is not a cause for extension of the contract time and shall not be used as a tool to delay execution.

5. Department's Criteria for Good Faith Effort

Appendix A of 49 CFR Part 26, is the guiding regulation concerning good faith efforts. However, the federal regulations do not explicitly define "good faith" but states that bidder must actively and aggressively attempt to meet the goal. The federal regulations are general and do not include every factor or effort that can be considered. As a result, each state must establish its own processes and consider the factors established in its own practices to create a process for making a determination of adequate good faith. WisDOT evaluates good faith on a contract basis just as each contract award is evaluated individually.

The department will only approve a contractor's good faith efforts if the bidder has made the effort, given the relevant circumstances under the contract that a bidder actively and aggressively seeking to meet the goal would make. The department will evaluate the bidder's good faith effort to determine whether a good faith efforts will be granted. The bidder must demonstrate, on the DT1202 that they have aggressively solicited DBE participation in an attempt to meet the contract DBE goal and attaining the stated DBE goal is not feasible.

a. The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

b. Prime Contractors should:
   (1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use the Civil Rights & Compliance System [CRCS] and related WisDOT- approved DBE outreach tools, including the Bid Express Small Business Network, to foster DBE participation on all applicable contracts.
   (2) Prime contractors may 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. Requesting assistance with outreach is not a decisive factor in the review Good faith effort evaluation. Phone numbers are 414-438-4584 and/or 414-659-0487; Fax: 414-438-5392; E-mail: DOTDBESupportServices@dot.wi.gov.
   (3) Request quotes by identifying potential items to subcontract and solicit. Prime contractors are strongly encouraged to include in their initial contacts a single page including a detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix A*. Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE's to do work in a prime contractor's area of specialization.
      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 you are seeking quotes to DOTDBESupportServices@dot.wi.gov.
      ii. SBN is the preferred outreach tool. https://www.bidx.com/wi/main. Other acceptable means include postal mail, email, fax, phone call.
         (a) Primes must ask DBE firms for a response in their solicitations. See *Sample Contractors Solicitation Letter* in Appendix. This letter can be included as an attachment to the SBN sub-quote request.
         (b) Solicit quotes at least 10 calendar days prior to the letting date, at least two Fridays before the letting, 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) Second solicitation should take place within 5 calendar days. Email and SBN are the preferred delivery of the follow-up 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 Bid Express SBN Record of Subcontractor Outreach Effort.

c. Evaluate DBE quotes Documentation is critical if a prime does not utilize the DBE firm's quote for any reason.
   (1) Evaluate DBE firm's capability to perform 'possible items to subcontract' using legitimate reasons, including but not limited to, ***a discussion with the DBE firm*** regarding its capabilities prior to the bid letting. If lack of capacity is your reason for not utilizing the DBE quote, you are required to contact the DBE 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 and/or NAICS code listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
   (2) In striving to meet an assigned DBE contract goal, prime contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.

(3) **Special Circumstance** - Evaluation of DBE quotes with tied bid items. “Tied quotes are the condition in which a subcontractor submits quotes including multiple areas of expertise across multiple work areas noting that the items and price are tied. Typically this type of quoting represents a cost saving to the prime but is not clearly stated as a discount; tied quotes are usually presented as ‘all or none’ quote to the prime.” When non-DBE subcontractors submit tied bid items in their quotes to the prime, the DBE firms’ quote may seem not competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples.

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.

d. Immediately after notification of contract award, the prime submits all **'Commitment to Subcontract'** forms to the DBE Office. Prime contractor has 5 days to submit the completed form for the DBE firms it intends to use on the contract for DBE credit. If the goal is not met in full, the prime contractor must provide the following information along with WisDOT form DT1202: Certificate of Good Faith Efforts.

(1) The names, addresses, e-mail addresses, telephone numbers of DBE's contacted. The dates of both initial and follow-up contact.
(2) A description of information provided to the DBE's regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE.
(3) Photocopies or electronic copies of all written solicitations to DBE's. A printed copy of SBN solicitation is acceptable.
(4) Documentation of each quote received from a DBE and, if rejected, the reason for that rejection.
(5) Bidder attendance at any pre-solicitation or pre-bid meetings the department held to inform DBE's of participation opportunities available on the project.

The prime contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved Commitment to Subcontract to DBE Form [DT1506]. If the prime contractor utilizes another contractor, including the use of its own workforce, to perform the work assigned to a DBE on the approved DT1506, the prime contractor will not be entitled to payment for that work. Any changes to DBE after the approval of the DT1506 must be reviewed and approved by the DBE office prior to the change.

6. 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, a prime contractor and the regular dealer of 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 in cases where the prime has submitted the DBE and material 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 is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE 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 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 form or 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 supplies.

b. DBE subcontractor is responsible to furnish and/or install the material/work item. The DBE subcontractor shall not be an 'extra participant' in the transaction; the DBE'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 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 contractors negotiated unit price.

7. Bidder's Appeal Process

a. A bidder can appeal the department's decision to deny the bidder's good faith effort submission. The bidder must provide written documentation refuting the specific reasons for rejection as stated in the department's rejection notice. The bidder may meet in person with the department if so requested. Failure to appeal within 7 calendar days after receiving the department's written denial notice of a good faith effort evaluation constitutes a forfeiture of the bidder's right of appeal. A contract cannot be executed without documentation that the DBE provisions have been fulfilled.

b. The department will appoint a representative, who did not participate in the original determination, to assess the bidder's appeal. The department will issue a written decision within 5 calendar days after the bidder presents all written and oral testimony. In that written decision, the department will explain the basis for finding that the bidder did or did not meet the contract DBE goal or make an adequate good faith effort to meet the contract DBE goal. The department's decision is final. If the department finds that the bidder did not meet the contract DBE goal or did not make adequate efforts to meet the DBE goal, the department may declare the bid ineligible for execution.

8. Department's Criteria for DBE Participation

Directory of DBE firms

a. The only resource for DBE certified firms certified in the state of Wisconsin is the Wisconsin Unified Certification Program [UCP] DBE List. Wisconsin Department of Transportation maintains a current list of certified DBE firms titled Wisconsin UCP DBE Directory on the website at:
   https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx

b. The DBE office is also available to assist at 414-438-4583 or 608-267-3849.

9. Counting DBE Participation

Assessing DBE Work

a. The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the unified certification program agencies. If a firm becomes DBE certified before entering into a subcontract, the department may consider that DBE usage towards the contract goal. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:

b. The department counts work performed by the DBE's own resources. The department includes the cost of materials and supplies the DBE obtains for the work. The department also includes the cost of equipment the DBE leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE purchases or leases from the prime contractor or its affiliate, except the department will count non-project specific leases the DBE has in place before the work is advertised.

c. The department counts fees and commissions the DBE charges for providing a bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the engineer deems reasonable based on experience or prevailing market rates.

d. If a DBE subcontracts work, the department counts the value of the subcontracted work only if the DBE's subcontractor is also a DBE.

e. The contractor shall maintain records and may be required to furnish periodic reports documenting its performance under this item.

f. It is the prime contractor’s responsibility to determine whether the work that is committed and/or contracted to a DBE certified 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.

g. It is the prime contractor’s responsibility to assess the DBE firm’s ability to perform the work for which s/he 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.

10. Commercially Useful Function

a. Commercially useful function is evaluated after the contract has been executed, while the DBE certified firm is performing its work items. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved.

b. The department uses Form DT1011: DBE Commercially Useful Function Review and Certification to evaluate whether 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 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 contract work and it 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 Trucking

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website at https://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf

12. 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 provides under the contract for DBE credit based on whether the DBE is a manufacturer, supplier or broker. Generally, DBE crediting measures and evaluates the DBE owner's role, responsibility and contribution to the transaction: maximum DBE credit when the DBE manufactures materials or supplies; DBE credit decreases when the DBE solely supplies material and minimal credit is allotted when the DBE's role is administrative or transactional.

It is the bidder's responsibility to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

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, count **100%** percent of the cost of the materials or supplies toward DBE goals.

b. Regular Dealers of Material and/or Supplies
   (1) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
   (2) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.
   (3) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:
      i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.
      ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.

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 have historically been 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, or fees or transportation charges for the delivery of materials or supplies required on a job site.
   (4) The evaluation will review the contract need for the item/service, review the sub-contract or invoice for the item/service, compare the fees customarily allowed for similar services to determine whether they are reasonable.

When DBE suppliers are contracted, additional documentation must accompany the DT1506 and Attachment 'A' forms. An invoice or bill-of-sale that includes the company names of the bidder and the DBE supplier and 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*. Please respond to the following questions and submit with your DBE Commitment Form.

1. What is the product or material?
2. Is this item in the prime's inventory or was the item purchased when contract was awarded?
3. Which contract line items were referenced to develop this quote?
4. What is the amount of material or product used on the project?

13. Credit Evaluation for DBE Primes

Wisconsin DOT calculates DBE credit based on the amount and type of work performed by DBE certified firms. If the prime contractor is a DBE certified firm, the department will only count the work that DBE prime contractor performs with its own forces for DBE credit. We will also calculate DBE credit for the work performed by any other DBE certified subcontractor, DBE certified supplier, DBE certified manufacturer on that contract in that DBE's approved work areas/NAICS code. Crediting for manufacturers and suppliers is calculated consistent with paragraph 12 of this document and 49 CFR Part 26.

14. Joint Venture

If a DBE performs as a participant in a joint venture, the department will only count that portion of the total dollar value of the contract equal to that portion of the work that the DBE performs with its own forces for DBE credit.

15. Mentor Protégé

a. If a DBE performs as a participant in a mentor protégé agreement, the department will count for credit the portion of the work performed by the DBE protégé firm.

b. DBE credit will be 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 that can be counted on any WisDOT project.

16. DBE Replacement or Termination

Contractual Requirement

The contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the contractor obtains written consent from the Department's DBE Office. If the Department does not provide consent to replace or terminate a DBE firm, the prime contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE.

Contractor Considerations

a. A prime contractor cannot terminate and/or replace a DBE subcontractor listed on the approved Commitment to Subcontract to DBE Form [DT1506] 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.

b. If a prime contractor feels it is necessary to replace or terminate a DBE firm that has been approved for DBE credit toward its contract, s/he will be required to provide reasons and documentation to support why the prime cannot fulfill the contractual commitment that it made to the Department regarding the DBE utilization.

c. Prime contractor is required to make affirmative efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE that was terminated, to the extent needed to meet the assigned DBE contract goal.

d. 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 is expected to make affirmative efforts to maintain its commitment to the assigned DBE goal.

e. The DBE firm should communicate with the prime contractor regarding its schedule and capacity in the context of the contract. If the DBE anticipates that it cannot fulfill its subcontract, s/he shall advise the prime contractor and suggest a DBE that may replace their services or provide written consent to be released from its subcontract.

(1) Before the prime contractor can request to terminate or substitute a DBE firm; s/he must:
   i. Make every effort to fulfill the DBE commitment by working with the listed DBE to ensure that they are fully knowledgeable of your expectations for successful performance on the contract. Document these efforts in writing.
   ii. If those efforts fail, provide written notice to the DBE subcontractor of your *intent to* request to terminate and/or replace the firm including the reason(s) you want to pursue this action.
   iii. Copy the DBE Office on all correspondence related to changing a DBE firm who has been approved for DBE credit on a contract including the preparation and coordination efforts with the DBE on the contract.
   iv. Clearly state the amount of time the DBE firm has to remedy and/or respond to your notice of intent to replace/terminate their firm from the contract. The DBE shall be allowed five days 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 manager must verify that waiting 5 days for a DBE performing traffic control work to respond would affect the public safety.
   v. The DBE subcontractor must forward a written response to the prime contractor and copy the DBE Office. The written response must outline why it objects to the proposed termination of its subcontract and list the reasons that WisDOT should not approve the request for their firm to be replaced or removed from the contract.

The Request to Replace or Terminate a DBE

The prime contractor must provide a written request to replace or terminate a DBE firm that has been approved for DBE credit on a WisDOT contract. The written request can be an email or printed document delivered by email or fax; at minimum, the request must contain the following:

1. Contract ID number.
2. Wisconsin DOT Contract Project Manager name and contact information.
3. DBE name and work type and/or NAICS code.
4. Contract's progress schedule.
5. Reason(s) for requesting that the DBE be replaced or terminated.
6. Attach/include all communication with the DBE to deploy/address/resolve work completion,

WisDOT will review your request and any supporting documentation that you submit to evaluate whether the circumstance and the reasons constitute a good cause for replacing or terminating the DBE that was approved for DBE credit on that contract.

Examples of Good Causes to Replace a DBE 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.
- You have determined that the listed DBE subcontractor is not a responsible contractor.
- The listed DBE subcontractor voluntarily withdraws from the project and provides to you written notice of its withdrawal.
- The listed DBE is ineligible to receive DBE credit for the type of work required.
- A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract.

Evaluation and Response to the Request

If WisDOT determines that your reasons comply with the good cause standards; the DBE office will send the prime contractor and the WisDOT project manager an email stating that we concur with the reasons and approve the replacement or termination.

If WisDOT determines that your reasons do not comply with the good cause standards of the federal DBE program, the DBE Office will send the prime contractor an email that includes *the requirement* to utilize the committed DBE, *remedial actions* to support the completion of the contractual commitment, a list of available WisDOT support services *and administrative remedies that may be invoked* for failure to comply with federal DBE guidelines for DBE replacement.

The Wisconsin Department of transportation contact for all actions related to replacing a DBE is the DBE Program Chief and/or the DBE Program Engineer which can be reached at DBE_Alert@dot.wi.gov or by calling 608-267-3849.

17. DBE Utilization beyond the approved DBE Commitment Form DT1506

If the Prime/subcontractor increases the scope of work for a participating DBE or adds a DBE subcontractor that was not on the approved Form DT1506 at any time after contract award, s/he should follow these steps so that the participation can be accurately credited toward the DBE goal.

a. Send an email to the DBE Engineer at DBE_Alert@dot.wi.gov describing the work to be performed by the new DBE including the proposed schedule or duration, DBE name and contact information. You may also call the DBE Engineer at 414-659-0487 to notify him of the change verbally.
   If the scope change added work for a participating DBE; list the date and reason for the scope change.

b. Forward a complete, signed Attachment 'A' form to the DBE Office at DBE_Alert@dot.wi.gov. A complete Attachment A includes DBE contact information, signature, subcontract value and proper description of the work areas to be performed by the DBE.
   The DBE office will confirm the DBE participation and revise the DT1506 based on the email/discussion and attach the new/revised Attachment A to the Contract record/documentation.

18. Contract Modifications

When additional opportunity is available by contract modifications, the Prime Contractor shall utilize DBE Subcontractors that were committed to equal work items, in the original contract.

19. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

APPENDIX A
Sample Contractor Solicitation Letter Page 1
This sample is provided as a guide not a requirement

GFW SAMPLE 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 https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx

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 https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/default.aspx

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 QUOTATION

Prime's Name: _____
Letting Date: _____
Project ID: _____

Please check all that apply

- ¨ Yes, we will be quoting on the projects and items listed below
- ¨ No, we are not interested in quoting on the letting or its items referenced below
- ¨ Please take our name off your monthly DBE contact list
- ¨ We have questions about quoting this letting. Please have 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:

Clear and Grub	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternatives are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

APPENDIX B
BEST PRACTICES FOR PRIME CONTRACTOR & DBE SUBCONTRACTOR GOOD FAITH EFFORT

This list is not a set of requirements; it is a list of potential strategies

Primes

- Ø Prime contractor open houses inviting DBE firms to see the bid "war room" or providing technical assistance.
- Ø Participate in speed networking and mosaic exercises as arranged by DBE office.
- Ø Host information sessions not directly associated with a bid letting.
- Ø Participate in a formal mentor protégé or joint venture with a DBE firm.
- Ø Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Ø Facilitate a small group DBE 'training session' Clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications and communication methods.
- Ø Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Ø Quality of communication, not quantity creates the best results. Contractors should do as thorough a job as possible in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- Ø DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Ø Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Ø Review the status of contracts on the HCCI website reviewing the 'apparent low bidder' list, and bid tabs at a minimum.
- Ø 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.
- Ø Participate in DBE office assessment programs.
- Ø Participate on advisory and mega-project committees.
- Ø Sign up to receive the DBE Contracting Update.
- Ø Consider membership in relevant industry or contractor organizations.
- Ø Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

APPENDIX C
Types of Efforts considered in determining GFE
This list represents concepts being assessed; analysis requires additional steps

1. Whether the contractor attended any pre-solicitation or pre-bid meetings that were scheduled by WisDOT to inform DBEs of contracting and subcontracting opportunities.
2. Whether the contractor provided written notice to a reasonable number of specific DBEs that their interest in the contract was being solicited, in sufficient time to allow the DBEs to participate effectively.
3. Whether the contractor followed up initial solicitations of interest by contacting DBEs to determine if the DBEs were interested; returned the phone calls of interested DBE firms.
4. Whether the contractor selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goal.
5. Whether the contractor provided interested DBEs with adequate information about the plans, specifications and requirements of the contract.
6. Whether the contractor negotiated in good faith with interested DBEs, not rejected DBEs as unqualified without sound reasons based on a thorough investigation of their capabilities.
7. Whether the contractor made efforts to assist interested DBEs in being more competitive.
8. Whether the contractor effectively used the services of available minority community organizations: minority contractors groups, local, state, and Federal minority business assistance offices, and other organizations that provide assistance to small businesses and DBE firms.
9. Whether Prime used CRCS to identify DBE who specialize in relevant work areas.
10. Whether the contractor used available resources including contacting the DBE office, using WisDOT's website
11. Whether the contractor returned calls of firms expressing interest in a timely manner.

APPENDIX D
Good Faith Effort Evaluation Guidance
Excerpt from Appendix A of 49 CFR Part 26

APPENDIX A TO PART 26 -- GUIDANCE CONCERNING GOOD FAITH EFFORTS

I. When, as a recipient, you establish a contract goal on a DOT assisted contract, a bidder must, in order to be responsible and/or responsive, make good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.

II. In any situation in which you have established a contract goal, part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, it is up to you to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made. The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call: meeting quantitative formulas is not required.

III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.

IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.

C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

D. (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.

(2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a

contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

E. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non solicitation of bids in the contractor's efforts to meet the project goal.

F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.

G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

V. In determining whether a bidder has made good faith efforts, you may take into account the performance of other bidders in meeting the contract. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts.

Appendix E
Small Business Network [SBN] Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription.
Within the Small Business Network, Prime Contractors can:

1. Easily select proposals, work types and items:
    a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for completion at a later time.

2. Create sub-quotes for the subcontracting community:
    a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
    b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
    c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE-preferred request.
    d. Add attachments to sub-quotes.

3. View sub-quote requests & responses:
    a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
    b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.

4. View Record of Subcontractor Outreach Effort:
    a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
    b. Easily locate pre-qualified and certified small and disadvantaged businesses.
    c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
    d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs.

1. View and reply to sub-quote requests from primes:
    a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests, or hidden with one click if they are not applicable.

2. Select items when responding to sub-quote requests from primes:
    a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
    b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes.
    c. Add attachments to a sub-quote.

3. Create and send unsolicited sub-quotes to specific contractors:
    a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.

4. Easily select and price items for unsolicited sub-quotes:
    a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on 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 414-438-4588.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

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

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

Payment to Lower-Tier Subcontractors

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

Release of Routine Retainage

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

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

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

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

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

Make the following revisions to the standard specifications:

104.10.2 Submittal and Review of a CRI Concept

Replace paragraph two with the following effective with the July 2019 letting:

(2) The department will review the CRI concept and, within 10 business days of the contractor's initial submittal, notify the contractor in writing whether the CRI concept has merit and whether the contractor should submit it as a CRI proposal. The contractor and the department can mutually agree to extend this 10-day review requirement. The department will notify the contractor if a professional engineer registered in the state of Wisconsin should seal the CRI proposal. If the department informs the contractor to submit the CRI proposal, the department will share in the cost for developing the CRI proposal as specified in 104.10.4.1(3).

107.14 Contractor's Responsibility for Work

Replace the entire text with the following effective with the June 2019 letting:

(1) Within 107.14, the term "work" is redefined to mean "the work product that is completed in its final position and is incorporated in the project."

(2) The contractor shall maintain charge and care of the work until the engineer accepts the work as specified in 105.11. Protect the work against injury or damage caused by public traffic, the action of the elements, or from other causes, whether arising from the execution or non-execution of the work. Rebuild, repair, restore, and make good injuries or damages to work caused by the above at no additional cost to the department.

(3) The department will assume responsibility for the work as follows:

1. Costs the department assumes under 104.6.
2. Costs to repair bridge damage attributed to public traffic, if the engineer determines that damage was beyond the control of and without the fault of the contractor.

(4) The contractor shall not bear the expense for damage to the work caused by abnormal and unforeseeable occurrences beyond the control of, and without the fault or negligence of, the contractor. These abnormal and unforeseeable occurrences include but are not limited to the following:

1. Cataclysmic phenomena of nature.
2. Acts of the public enemy.
3. Acts of government authorities.

(5) Before suspending the work, take the necessary precautions to prevent damage to the project, prevent traffic accidents, and provide for normal drainage. Erect necessary temporary barrier, barricades, signs, or other facilities at no expense to the department except as specified in 104.6.

(6) The contractor is responsible for all damages to equipment and supplies regardless of the circumstances.

107.17.1 General

Replace paragraph seven with the following effective with the December 2018 letting:

(7) Have a professional engineer registered in the state of Wisconsin sign and seal the shop drawings. At least 30 calendar days before starting falsework, form, or shoring construction; submit a PDF file of shop drawings to the railroad's chief engineering officer and to the engineer. The engineer and the railroad may review the shop drawings. If the engineer or the railroad finds the shop drawings unsatisfactory, the contractor shall make the required changes. A satisfactory shop drawing review does not relieve the contractor of responsibility and liability for the structural integrity and proper functioning of the falsework, forms, or shoring.

109.1.1 General

Replace the entire text with the following effective with the January 2019 letting:

(1) The engineer will use the US standard system to measure all work completed under the contract. The engineer will determine quantities of materials the contractor furnishes and work the contractor performs using measurement methods and computations conforming to standard engineering practice, modified to meet department requirements. The engineer will document these measurements using department procedures.

(2) The engineer will measure the work as the contract measurement subsection for individual items specifies. The department will measure the actual quantities of work the contractor acceptably completes and make final payment based on those actual measured quantities except as follows:

1. If the measurement subsection for a bid item specifically restricts the quantity measured for payment or allows for use of conversion factors.
2. If the engineer executes a contract change order modifying the method of measurement for specific bid items, the engineer will measure the quantities of applicable bid items for payment using the change order methods.
3. If the engineer, under 105.3.1(2), approves a contractor-requested plan dimension change between US standard and SI metric dimensions, the engineer will measure whichever of the following is less:
   - Actual quantities constructed.
   - Quantities derived from the original plan dimensions.
4. For substitutions made under 106.2.3 between US standard and SI metric products, the engineer will measure the actual quantities of the substitute products using the original contract measuring system.

205.5.2 Excavation

Replace the entire text with the following effective with the April 2019 letting:

205.5.2.1 General

(1) Payment for the Excavation bid items under this section is full compensation for work specified for those excavation classes under 205 with no separate contract bid items; for hauling; and for constructing and removing temporary drainage installations as specified under 205.3.3.

(2) Payment also includes removing walls, foundations, etc. with no separate contract bid items; for disposal of resulting material; and for backfilling basements or openings resulting from removing walls, foundations, etc.

205.5.2.2 Associated Work

(1) The department will pay separately for removing concrete structures under the 203 and 204 bid items.

(2) The department will pay separately for granular backfill the contract or engineer requires under the Backfill Granular bid items.

(3) The department will pay separately for erosion control, fertilizing, and seeding of material disposal sites as specified for material disposal sites in 628.5.1.

(4) If the contract does not include the Excavation Rock bid item, the department will pay 5 times the contract bid price of the Excavation Common bid item to remove boulders having volumes of one cubic yard or more. The department will pay for these boulder removals under the Removing Large Boulders administrative item.

205.5.2.3 Excavation Below Subgrade

205.5.2.3.1 General

(1) The department will only pay for engineer-approved EBS to correct problems beyond the contractor's control.

205.5.2.3.2 Quantity Overruns

(1) The department will provide additional compensation for EBS quantity overruns if the following conditions are met:

- The quantity of engineer-approved EBS, calculated exclusive of work covered under 205.5.2.3.3 or 301.5, exceeds the total contract EBS quantity the earthwork summary sheet shows by more than 25 percent.
- The material exceeding that 25 percent threshold cannot be disposed of within the project right-of-way.

(2) The department will pay 2 times the contract unit price, up to $25,000, for the quantity of EBS meeting the above conditions. After exceeding $25,000 per contract, the department will pay for additional EBS as determined under 109.4.

205.5.2.3.3 Subgrade Correction

(1) Work performed under 105.3 to correct unacceptable work is the contractor's responsibility. For EBS work performed where the engineer did not approve the subgrade for subsequent operations, the department will pay for EBS at the contract price under the pertinent excavation and backfill bid items, or absent those bid items as extra work. For EBS work performed where the engineer approved the underlying layers for subsequent operations, the department will pay for EBS as follows:

1. Up to a maximum of $25,000 per contract, the department will pay as follows:
   - 1.1 For excavation: 3 times the contract unit price for the Excavation Common bid item under the EBS Post Grading administrative item.
   - 1.2 For backfill with the materials the engineer directs: at the contract unit price for the bid items of each material used to fill the excavation.
   - 1.3 For excavation or backfill without contract bid items: as extra work.
2. After exceeding $25,000 per contract, the department will pay for additional EBS in engineer-approved areas as determined under 109.4.

305.2.1 General

Replace paragraph two with the following effective with the December 2018 letting:

(2) Where the contract specifies or allows 1 1/4-inch base, do not place reclaimed asphalt, reprocessed material, or blended materials below virgin aggregate materials unless the contract specifies or the engineer allows in writing. The department will allow virgin aggregate above reclaimed asphalt, reprocessed material, or blended materials in shoulder areas adjacent to concrete pavement.

420.3.2.1 General

Replace paragraph one with the following effective with the December 2018 letting:

(1) Use self-propelled grinding machines with depth, grade, and slope controls designed for grinding and texturing concrete. Equip grinding machines with diamond blades and a vacuuming system capable of removing liquid and solid residue from the ground surface. Shroud the machine to prevent discharging loosened material into adjacent work areas or live traffic lanes. Provide the specified effective wheelbase, defined as the center of the front to center of the rear main support wheels.

420.3.2.2 Continuous Grinding

Replace paragraph one with the following effective with the December 2018 letting:

(1) Under the Continuous Diamond Grinding Concrete Pavement bid item, ensure that the grinding machine, including the grinding head, weighs 35,000 pounds or more, will grind a strip at least 4 feet wide, and has an effective wheel base of 25 feet or more. For pavements with a design speed less than 40 miles per hour and areas difficult to access, the contractor may use equipment with an effective wheel base of 12 feet or more.

450.3.2.8 Jointing

Replace paragraphs three through five with the following effective with the December 2018 letting:

(3) Construct notched wedge longitudinal joints for mainline paving if the pavement thickness conforms to the minimums specified in 460.3.2, unless the engineer directs or allows an alternate joint. Construct the wedge using a slope no steeper than 3:1. Extend the wedge 12 inches beyond the normal lane width, or as the engineer directs. Ensure that the wedge for all layers directly overlaps and slopes in the same direction.

(4) Locate the joint at the pavement centerline for 2-lane roadways, or at lane lines if the roadway has more than 2 lanes. Construct a vertical notch 1/2-inch to 3/4-inch high on the centerline or lane line at the top of each wedge. Place a 1/2-inch to 3/4-inch notch at the outside bottom edge of the wedge after compacting each layer. Align the finished longitudinal joint line of the upper layer with the centerline or lane line.

(5) Construct the wedge for each layer using an engineer-approved strike-off device that will provide a uniform slope and will not restrict the main screed. Shape and compact the wedge with a weighted steel side roller wheel the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.

455.2.4.3 Emulsified Asphalts

Replace paragraph two with the following effective with the December 2018 letting:

(2) The bill of lading for emulsified asphalts shall indicate the asphalt content of the original emulsion and dilution rate of the additional water added to the original emulsion. If undiluted samples are not available, test the diluted material and modify AASHTO M140, M208, or M316 to reflect properties resulting from dilution of the asphalt.

460.2.8.3.1.4 Department Verification Testing Requirements

Replace paragraph three with the following effective with the December 2018 letting:

(3) The department will perform testing conforming to the following standards:

Bulk specific gravity (G_{mb}) of the compacted mixture according to AASHTO T166.

Maximum specific gravity (G_{mm}) according to AASHTO T209.

Air voids (V_a) by calculation according to AASHTO T269.

VMA by calculation according to AASHTO R35.

Asphalt content by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164, or Asphalt Analyzer™ according to manufacturer recommendations.

460.2.8.3.1.6 Acceptable Verification Parameters

Replace paragraph one with the following effective with the December 2018 letting:

(1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:

- Va is within a range of 2.0 to 4.3 percent. For SMA, Va is within a range of 2.7 to 5.3 percent.
- VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.
- Asphalt content is within minus 0.3 percent of the JMF.

460.2.8.3.1.7 Dispute Resolution

Replace paragraph one with the following effective with the December 2018 letting:

(1) When QV test results do not meet the specified limits for 100 percent pay, the bureau's AASHTO accredited laboratory and certified personnel will referee test the retained portion of the QV sample and the retained portion of the required forward and backward QC retained samples according to CMM 8-36.

460.5.2.1 General

Replace paragraphs five and six with the following effective with the December 2018 letting:

(5) The department will reduce pay for nonconforming QMP HMA mixtures as specified in 460.2.8.2.1.7, starting from the stop point to the point when the running average of 4 is back inside the warning limits. The engineer will determine the quantity of material subject to pay reduction based on the testing data and an inspection of the completed pavement. The department will reduce pay as follows:

PAYMENT FOR MIXTURE[1] [2] [3]

ITEM	PRODUCED WITHIN WARNING BANDS	PRODUCED OUTSIDE JMF LIMITS
Gradation	90%	75%
Asphalt Content[4]	___	___
Air Voids	70%	50%
VMA	90%	75%

[1] For projects or plants where the total production of each mixture design requires less than 4 tests refer to CMM 8-36.

[2] Payment is in percent of the contract unit price for the HMA Pavement bid item. The department will reduce pay based on the nonconforming property with lowest percent pay. If the quantity of material subject to pay adjustment based on the running average of 4 is also subject to pay adjustment resulting from dispute resolution in accordance with 460.2.8.3.1.7, the department will apply the single pay adjustment resulting in the lowest percent pay.

[3] In addition to any pay adjustment listed in the table above, the department will adjust pay for nonconforming binder under the Nonconforming QMP Asphaltic Material administrative item. The department will deduct 25 percent of the contract unit price of the HMA Pavement bid item per ton of pavement placed with nonconforming PG binder the engineer allows to remain in place.

[4] The department will not adjust pay based on a running average of 4 asphalt content tests; however, corrective action will be applied to nonconforming material according to 460.2.8.2.1.7.

(6) If during a QV dispute resolution investigation the department discovers unacceptable mixture defined by one or more of the following:

- Va greater than 5.0 or less than 1.5.
- VMA more than 1.0 below the minimum allowed in table 460-1.
- AC more than 0.5 % below the JMF target.

Remove and replace the material, or if the engineer allows the mixture to remain in place, the department will pay for the quantity of affected material at 50 percent of the contract price.

501.3.8.2.1 General

Replace paragraph two with the following effective with the April 2019 letting:

(2) If the concrete temperature at the point of placement exceeds 90 F, do not place concrete under the following structure and concrete barrier bid items:

Concrete Masonry Bridges	Concrete Masonry Retaining Walls
Concrete Masonry Bridges HES	Concrete Masonry Retaining Walls HES
Concrete Masonry Culverts	Concrete Masonry Endwalls
Concrete Masonry Culverts HES	Concrete Masonry Overlay Decks
Concrete Barrier Single-Faced 32-Inch	Concrete Barrier (type)
Concrete Barrier Double-Faced 32-Inch	Concrete Barrier Fixed Object Protection (type)
Concrete Barrier Transition Section 32-Inch	Concrete Barrier Transition (type)

506.3.2 Shop Drawings

Replace paragraph four with the following effective with the December 2018 letting:

(4) Ensure that the fabricator submits a PDF file of shop drawings for railroad structures to the railroad company's chief engineering officer upon contract completion.

603.3.1.1 General

Replace paragraph three with the following effective with the April 2019 letting:

(3) Cast permanent barrier and transitions in place. Use construction methods conforming to 502 and conform to the hot weather placement requirements of 501.3.8.2. Use forms or engineer-approved slip form methods for barrier. Use forms for transitions. Construct barrier on horizontal curves as a series of 12-foot or shorter chords.

646.3.1.2 Liquid Marking

Replace paragraph five with the following effective with the June 2019 letting:

(5) Apply liquid marking and glass beads across the line at or exceeding the following:

LIQUID MARKING	PAVEMENT TYPE	THICKNESS (mils)	BEAD APPLICATION (pounds per gallon)
Paint	all	16	8
Epoxy	SMA, seal coats, and polymer overlays	25	25
Epoxy	all other	20	22.5
Wet Reflective Epoxy	all	20	[1]

[1] Use the product specific bead application rate for wet reflective epoxy specified on the department's APL.

646.3.2.3.2 Wet Reflective Epoxy

Replace paragraph one with the following effective with the June 2019 letting:

(1) Apply wet reflective epoxy binder in a grooved slot. and provide a double drop bead system as follows:

1. Wet reflective/recoverable elements at the application rate specified in the department's APL.
2. Glass beads conforming to 646.2.2 at the application rate specified in the department’s APL.

650.3.1 General

Replace the entire text with the following effective with the December 2018 letting:

(1) Department and contractor responsibilities for construction staking are specified in 105.6. Conform to 105.6 and the additional requirements specified here in 650.3 for the individual contractor-staking bid items the contract includes.

(2) Protect and preserve known property and survey marks and land monuments as specified in 107.11.3. The contract may require related work under the 621 bid items.

(3) Obtain or calculate benchmark data, grades, and alignment from plan information. The engineer will furnish data for the horizontal and vertical control points, control point ties, horizontal alignments, profiles, and elevations. Reestablish, set additional, and maintain the horizontal and vertical control points and control point ties, as needed for bid items.

(4) Check horizontal and vertical information including but not limited to alignments, locations, elevations, and dimensions, that either the plans show or the engineer provides, for compatibility with existing field conditions. Conduct similar compatibility checks and accuracy checks of horizontal and vertical positions either the department or the contractor establishes in the field.

(5) Perform survey work using conventional methods, or AMG methods capable of achieving the lines and grades the plans show for the work in question. Establish additional benchmarks and control points as necessary to support the method of operation.

650.3.1.1 Staking

(1) Furnish, set, reference, and maintain stakes and markings necessary to establish the alignment, location, benchmarks, elevations, and continuous profile-grades for road and structure work as needed for bid items. Supervise and coordinate construction staking.

(2) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. Make the survey notes and computations available to the engineer within 24 hours, upon request, as the work progresses.

(3) Furnish surveying equipment, stakes, flags, pins, lath, whiskers, and other materials necessary to perform this work, subject to the engineer’s approval.

650.3.1.2 Automated Machine Guidance

650.3.1.2.1 General

(1) The contractor may substitute AMG for conventional staking on all or part of the work under the individual staking bid items. Coordinate with the engineer throughout the course of construction to ensure that work performed using AMG conforms to the contract tolerances and that the methods employed conform to the contractor's AMG work plan and accepted industry standards. Revert to

conventional staking methods for all or part of the work at any point during construction if AMG is producing unacceptable results.

650.3.1.2.2 AMG Work Plan

(1) Submit a comprehensive written AMG work plan for department review at least 5 business days before the preconstruction conference. In that plan discuss how AMG technology will be integrated into other technologies employed on the project. List the staking bid items that will have work performed using AMG and, for each bid item listed, include the following:

1. Designate which portions of the contract will be done using AMG and which portions will be done using conventional staking.
2. Designate a single staff person as the primary contact for AMG technology issues.
3. List and map the primary and secondary control points required under 105.6.2 enveloping the site.
4. Describe the contractor's quality control procedures. Include the frequency and type of checks performed to ensure that the work conforms to the contract plans.

(2) The engineer will review the plan to determine if it conforms to the contract. Do not perform AMG work until the engineer approves the governing portion of the AMG workplan. Perform the work as the contractor's AMG work plan provides. Update the plan as necessary.

650.3.1.2.3 Geometric and Surface Information

650.3.1.2.3.1 Department Responsibilities

(1) At any time after the contract is awarded the contractor may request the contractor data packet. The department will provide the packet within 5 business days of receiving the contractor's request.

650.3.1.2.3.2 Contractor Responsibilities

(1) Develop and maintain a contractor construction model for areas of the project employing AMG. Confirm that the resulting model agrees with the contract plans.

(2) If the engineer requests, provide the construction model to the department in LandXML or other engineer-approved format.

650.3.1.2.4 Managing and Updating Information

(1) Notify the department of any errors or discrepancies in department-provided information. The department will determine what revisions may be required. The department will revise the contract plans, if necessary, to address errors or discrepancies that the contractor identifies. The department will provide the best available information related to those contract plan revisions.

(2) Revise the construction model as required to support construction operations and to reflect any contract plan revisions the department makes. Perform checks to confirm that the revised construction model agrees with the contract plan revisions. If the engineer requests, provide construction model updates to the engineer. The department will pay for costs incurred to incorporate contract plan revisions as extra work.

650.3.1.2.5 Construction Checks

(1) Check the work against the plan elevation at randomly selected points on cross-sections located at stations evenly divisible by 100 at the frequency the engineer approved as a part of the AMG work plan. Submit the results of these random checks to the engineer daily. Notify the engineer immediately if a check exceeds the tolerances specified in 650.3.1.2.6 below.

(2) Check the work at additional points as the engineer directs. The department may conduct periodic independent checks.

650.3.1.2.6 Construction Tolerances

(1) Ensure that the finished work vertically matches existing or other completed features. Ensure that the work conforms to revised plan elevations as follows:

- Subgrade : +/- 0.10 feet.
- Base : within the tolerance specified in 301.3.4.1(2).

650.3.3 Subgrade

Retitle and replace the entire text with the following effective with the December 2018 letting:

650.3.3 Subgrade Staking

(1) Set construction stakes or marks at intervals of 100 feet, or more frequently, for rural sections and at intervals of 50 feet, or more frequently, for urban sections. Include additional stakes at each cross-section as necessary to match the plan cross-section, achieve the required accuracy, and to support construction operations. Also set and maintain stakes as necessary to establish the horizontal and vertical positions of intersecting road radii, auxiliary lanes, horizontal and vertical curves, and curve transitions. Locate stakes to within 0.25 feet horizontally and establish the grade elevation to within 0.03 feet vertically.

Errata

520.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

(5) Provide joint ties on the upstream and downstream ends of circular and horizontal elliptical concrete culvert and concrete cattle pass installations. Tie the next 3 pipe joints or, if using apron endwalls, the endwall joint and the last 2 pipe joints. Ties are not required on culverts with masonry endwalls unless the plans show otherwise.

608.3.3 Laying Pipe

Correct errata by replacing "sections" with "joints" to clarify the intent that the last 3 joints need ties.

(5) Provide joint ties on concrete storm sewer system infall and outfall pipes. Tie the last 3 pipe joints or, if using apron endwalls, the endwall joint and the next 2 pipe joints. Ties are not required on installations with masonry endwalls unless the plans show otherwise.

ADDITIONAL SPECIAL PROVISION 7

A. Reporting 1st Tier and DBE Payments During Construction

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

B. Costs for conforming to this special provision are incidental to the contract.

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

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the 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.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

T h i s p r o v i s i o n i s applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

T h i s p r o v i s i o n i s applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

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

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

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

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

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

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

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

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

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

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

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

2. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

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

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

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

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Non-discrimination Provisions

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

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

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

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

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

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

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

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

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

Pertinent Non-Discrimination Authorities:

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

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

SEPTEMBER 2002

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.

2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

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 August 2015 letting

BUY AMERICA PROVISION

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

https://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf

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

https://wisconsindot.gov/hcciDocs/contracting-info/ws4567.doc

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: WI20190010 07/26/2019

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.60 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 calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate,if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date

0	01/04/2019
1	02/22/2019
2	05/17/2019
3	07/26/2019

BRWI0001-002 06/01/2018

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

	Rates	Fringes
BRICKLAYER	$ 33.06	22.65

BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.87	21.26

BRWI0002-005 06/01/2018

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 35.39	21.46

BRWI0003-002 06/01/2018

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

	Rates	Fringes
BRICKLAYER	$ 33.44	22.27

BRWI0004-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.66	23.35

BRWI0006-002 06/01/2018

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

	Rates	Fringes
BRICKLAYER	$ 34.30	21.41

BRWI0007-002 06/01/2018

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 34.82	22.59

BRWI0008-002 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.03	22.55

BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 33.44	22.27

BRWI0019-002 06/01/2018

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

	Rates	Fringes
BRICKLAYER	$ 32.97	22.74

BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 34.80	22.61

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 06/04/2018

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:	$ 34.21	20.46

ELEC0014-007 06/05/2018

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 26.25	13.92

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

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* ELEC0127-002 06/01/2018

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 39.50	30%+11.32

ELEC0158-002 06/04/2018

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
Electricians:	$ 32.50	19.68

ELEC0159-003 06/01/2018

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

	Rates	Fringes
Electricians:	$ 39.04	21.56

ELEC0219-004 06/01/2016

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

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

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 36.85	26.17

ELEC0388-002 06/03/2018

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:	$ 32.55	19.02

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* ELEC0430-002 06/01/2019

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 40.30	22.04

ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 39.31	24.69

ELEC0494-006 06/01/2018

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

	Rates	Fringes
Electricians:	$ 33.40	22.08

ELEC0494-013 06/01/2018

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	$ 19.56	15.78
Technician	$ 28.99	16.25

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 06/01/2018

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:	$ 32.18	18.59

ELEC0890-003 06/01/2018

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

	Rates	Fringes
Electricians:	$ 34.15	19.63

ELEC0953-001 07/01/2015

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

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* ENGI0139-005 06/03/2019

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 41.17	23.03
Group 2	$ 40.67	23.03
Group 3	$ 40.17	23.03
Group 4	$ 39.91	23.03
Group 5	$ 39.62	23.03
Group 6	$ 33.72	23.03

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.

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

IRON0008-002 06/03/2018

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

	Rates	Fringes
IRONWORKER	$ 32.98	27.47

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

IRON0008-003 06/03/2018

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

	Rates	Fringes
IRONWORKER	$ 34.88	27.72

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

IRON0383-001 06/01/2018

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	$ 35.00	25.22

IRON0498-005 06/01/2016

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

	Rates	Fringes
IRONWORKER	$ 36.29	30.77

IRON0512-008 05/01/2018

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

	Rates	Fringes
IRONWORKER	$ 37.10	10.10

IRON0512-021 05/01/2018

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

	Rates	Fringes
IRONWORKER	$ 32.64	10.10

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* LABO0113-002 06/03/2019

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 29.02	22.00

Group 2	$ 29.17	22.00
Group 3	$ 29.37	22.00
Group 4	$ 29.52	22.00
Group 5	$ 29.67	22.00
Group 6	$ 25.51	22.00

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

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* LABO0113-003 06/03/2019

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 28.27	22.00
Group 2	$ 28.37	22.00
Group 3	$ 28.42	22.00
Group 4	$ 28.62	22.00
Group 5	$ 28.47	22.00
Group 6	$ 25.36	22.00

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

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* LABO0113-011 06/03/2019

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 28.08	22.00
Group 2	$ 28.23	22.00
Group 3	$ 28.43	22.00
Group 4	$ 28.40	22.00
Group 5	$ 28.73	22.00
Group 6	$ 25.22	22.00

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

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* LABO0140-002 06/03/2019

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	$ 32.84	17.54
Group 2	$ 32.94	17.54
Group 3	$ 32.99	17.54
Group 4	$ 33.19	17.54
Group 5	$ 33.04	17.54
Group 6	$ 29.47	17.54

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

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* LABO0464-003 06/03/2019

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 33.12	17.54
Group 2	$ 33.22	17.54
Group 3	$ 33.27	17.54
Group 4	$ 33.47	17.54
Group 5	$ 33.32	17.54
Group 6	$ 29.47	17.54

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 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 30.33	17.27
Spray, Sandblast, Steel	$ 30.93	17.27
Repaint:		
Brush, Roller	$ 28.83	17.27
Spray, Sandblast, Steel	$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 33.74	18.95
Spray & Sandblast	$ 34.74	18.95

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 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 31.60	23.51
Brush	$ 31.55	23.51
Spray & Sandblast	$ 32.30	23.51

PAIN0802-002 06/01/2017

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

	Rates	Fringes
PAINTER		
Brush	$ 28.25	17.72

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2017

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN

LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER	$ 24.89	12.05

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 33.74	18.95
Spray	$ 34.74	18.95
Structural Steel	$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 24.86	12.23

PLAS0599-010 06/01/2017

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

AREA DESCRIPTIONS

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

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, 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 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic	$ 28.27	21.20
WELL DRILLER	$ 16.52	3.70

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

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this

contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

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

most current negotiated rate, which in this example is July 1, 2014.

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material,

etc.) that the requestor considers relevant to the issue.

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

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

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

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END OF GENERAL DECISION"

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: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0120 Clearing	459.000 ID	_____.____	_____.____
0004	201.0220 Grubbing	459.000 ID	_____.____	_____.____
0006	204.0100 Removing Pavement	51,032.000 SY	_____.____	_____.____
0008	204.0150 Removing Curb & Gutter	350.000 LF	_____.____	_____.____
0010	204.0155 Removing Concrete Sidewalk	7,824.000 SY	_____.____	_____.____
0012	204.0170 Removing Fence	200.000 LF	_____.____	_____.____
0014	204.0195 Removing Concrete Bases	81.000 EACH	_____.____	_____.____
0016	204.0210 Removing Manholes	1.000 EACH	_____.____	_____.____
0018	204.0220 Removing Inlets	59.000 EACH	_____.____	_____.____
0020	204.0245 Removing Storm Sewer (size) 01. 8-Inch	99.000 LF	_____.____	_____.____
0022	204.0245 Removing Storm Sewer (size) 02. 10-Inch	649.000 LF	_____.____	_____.____
0024	204.0245 Removing Storm Sewer (size) 03. 12-Inch	1,302.000 LF	_____.____	_____.____
0026	204.0280 Sealing Pipes	28.000 EACH	_____.____	_____.____
0028	204.9060.S Removing (item description) 01. Removing Street Light Poles	50.000 EACH	_____.____	_____.____
0030	204.9060.S Removing (item description) 02. Removing Sanitary Sewer Manholes	3.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.9090.S Removing (item description) 01. Removing Sanitary Sewer 10-Inch	99.000 LF	_____.____	_____.____
0034	205.0100 Excavation Common	59,026.000 CY	_____.____	_____.____
0036	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	1,728.000 TON	_____.____	_____.____
0038	213.0100 Finishing Roadway (project) 01. 2260-07-70	1.000 EACH	_____.____	_____.____
0040	305.0110 Base Aggregate Dense 3/4-Inch	11.000 TON	_____.____	_____.____
0042	305.0120 Base Aggregate Dense 1 1/4-Inch	23,218.000 TON	_____.____	_____.____
0044	310.0110 Base Aggregate Open-Graded	48.000 TON	_____.____	_____.____
0046	311.0110 Breaker Run	46,319.000 TON	_____.____	_____.____
0048	371.1000.S QMP Base Aggregate Dense 1 1/4-Inch Compaction	23,218.000 TON	_____.____	_____.____
0050	405.1000 Stamping Colored Concrete	144.000 CY	_____.____	_____.____
0052	415.0085 Concrete Pavement 8 1/2-Inch	43,863.000 SY	_____.____	_____.____
0054	415.0210 Concrete Pavement Gaps	35.000 EACH	_____.____	_____.____
0056	415.1085 Concrete Pavement HES 8 1/2-Inch	3,248.000 SY	_____.____	_____.____
0058	415.4100 Concrete Pavement Joint Filling	51,311.000 SY	_____.____	_____.____
0060	415.5110.S Concrete Pavement Joint Layout 01. 2260-07-70	1.000 LS	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

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	416.0160 Concrete Driveway 6-Inch	2,880.000 SY	_____.____	_____.____
0064	416.0260 Concrete Driveway HES 6-Inch	389.000 SY	_____.____	_____.____
0066	416.0610 Drilled Tie Bars	27.000 EACH	_____.____	_____.____
0068	416.0620 Drilled Dowel Bars	791.000 EACH	_____.____	_____.____
0070	455.0605 Tack Coat	34.000 GAL	_____.____	_____.____
0072	460.2000 Incentive Density HMA Pavement	200.000 DOL	1.00000	200.00
0074	460.6223 HMA Pavement 3 MT 58-28 S	170.000 TON	_____.____	_____.____
0076	460.6224 HMA Pavement 4 MT 58-28 S	75.000 TON	_____.____	_____.____
0078	465.0120 Asphaltic Surface Driveways and Field Entrances	305.000 TON	_____.____	_____.____
0080	465.0125 Asphaltic Surface Temporary	101.000 TON	_____.____	_____.____
0082	513.2001 Railing Pipe	38.000 LF	_____.____	_____.____
0084	520.8000 Concrete Collars for Pipe	61.000 EACH	_____.____	_____.____
0086	601.0405 Concrete Curb & Gutter 18-Inch Type A	3,920.000 LF	_____.____	_____.____
0088	601.0407 Concrete Curb & Gutter 18-Inch Type D	90.000 LF	_____.____	_____.____
0090	601.0409 Concrete Curb & Gutter 30-Inch Type A	4,280.000 LF	_____.____	_____.____
0092	601.0411 Concrete Curb & Gutter 30-Inch Type D	290.000 LF	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0094	601.0452 Concrete Curb & Gutter Integral 30-Inch Type D	10,300.000 LF	_____.____	_____.____
0096	601.0600 Concrete Curb Pedestrian	1,110.000 LF	_____.____	_____.____
0098	602.0410 Concrete Sidewalk 5-Inch	71,233.000 SF	_____.____	_____.____
0100	602.0505 Curb Ramp Detectable Warning Field Yellow	1,250.000 SF	_____.____	_____.____
0102	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	46.000 SF	_____.____	_____.____
0104	602.1500 Concrete Steps	160.000 SF	_____.____	_____.____
0106	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	774.000 LF	_____.____	_____.____
0108	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	135.000 LF	_____.____	_____.____
0110	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	1,630.000 LF	_____.____	_____.____
0112	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	391.000 LF	_____.____	_____.____
0114	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	5.000 LF	_____.____	_____.____
0116	611.0420 Reconstructing Manholes	15.000 EACH	_____.____	_____.____
0118	611.0535 Manhole Covers Type J-Special	9.000 EACH	_____.____	_____.____
0120	611.0624 Inlet Covers Type H	61.000 EACH	_____.____	_____.____
0122	611.0639 Inlet Covers Type H-S	14.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0124	611.0666 Inlet Covers Type Z	15.000 EACH	_____.____	_____.____
0126	611.3003 Inlets 3-FT Diameter	13.000 EACH	_____.____	_____.____
0128	611.3004 Inlets 4-FT Diameter	56.000 EACH	_____.____	_____.____
0130	611.3230 Inlets 2x3-FT	27.000 EACH	_____.____	_____.____
0132	611.8110 Adjusting Manhole Covers	36.000 EACH	_____.____	_____.____
0134	611.8115 Adjusting Inlet Covers	3.000 EACH	_____.____	_____.____
0136	612.0106 Pipe Underdrain 6-Inch	814.000 LF	_____.____	_____.____
0138	616.0204 Fence Chain Link 4-FT	100.000 LF	_____.____	_____.____
0140	616.0206 Fence Chain Link 6-FT	100.000 LF	_____.____	_____.____
0142	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0144	620.0300 Concrete Median Sloped Nose	416.000 SF	_____.____	_____.____
0146	624.0100 Water	100.000 MGAL	_____.____	_____.____
0148	625.0100 Topsoil	6,201.000 SY	_____.____	_____.____
0150	627.0200 Mulching	3,795.000 SY	_____.____	_____.____
0152	628.1104 Erosion Bales	64.000 EACH	_____.____	_____.____
0154	628.1504 Silt Fence	1,000.000 LF	_____.____	_____.____
0156	628.1520 Silt Fence Maintenance	1,000.000 LF	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0158	628.1905 Mobilizations Erosion Control	9.000 EACH	_____.____	_____.____
0160	628.1910 Mobilizations Emergency Erosion Control	6.000 EACH	_____.____	_____.____
0162	628.2006 Erosion Mat Urban Class I Type A	3,795.000 SY	_____.____	_____.____
0164	628.7005 Inlet Protection Type A	96.000 EACH	_____.____	_____.____
0166	628.7010 Inlet Protection Type B	13.000 EACH	_____.____	_____.____
0168	628.7015 Inlet Protection Type C	155.000 EACH	_____.____	_____.____
0170	628.7560 Tracking Pads	2.000 EACH	_____.____	_____.____
0172	629.0210 Fertilizer Type B	5.600 CWT	_____.____	_____.____
0174	630.0130 Seeding Mixture No. 30	68.000 LB	_____.____	_____.____
0176	630.0200 Seeding Temporary	103.000 LB	_____.____	_____.____
0178	631.0300 Sod Water	114.000 MGAL	_____.____	_____.____
0180	631.1000 Sod Lawn	4,418.000 SY	_____.____	_____.____
0182	632.0101 Trees (species) (size) (root) 01. Elm, 'New Horizon', B&B, 2.5" CAL.	5.000 EACH	_____.____	_____.____
0184	632.0101 Trees (species) (size) (root) 02. Elm, 'Princeton', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0186	632.0101 Trees (species) (size) (root) 03. Hackberry, 'Chicagoland', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0188	632.0101 Trees (species) (size) (root) 04. Honeylocust, Thornless 'Shademaster', B&B, 2.5" CAL.	5.000 EACH	_____.____	_____.____
0190	632.0101 Trees (species) (size) (root) 05. Kentucky Coffeetree, 'Espresso', B&B, 2.5" CAL.	7.000 EACH	_____.____	_____.____
0192	632.0101 Trees (species) (size) (root) 06. London Planetree, 'Exclamation', B&B, 2.5" CAL.	4.000 EACH	_____.____	_____.____
0194	632.0101 Trees (species) (size) (root) 07. Maple, Freeman 'Armstrong', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0196	632.0101 Trees (species) (size) (root) 08. Maple, Red 'Sun Valley', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0198	632.0101 Trees (species) (size) (root) 09. Maple, State Street, B&B, 2.5" CAL.	5.000 EACH	_____.____	_____.____
0200	632.0101 Trees (species) (size) (root) 10. Oak, Heritage, B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0202	632.0101 Trees (species) (size) (root) 11. Crabapple, 'Adirondack', B&B, 2" CAL.	2.000 EACH	_____.____	_____.____
0204	632.0101 Trees (species) (size) (root) 12. Dogwood, Cornelian Cherry 'Golden Glory', B&B, 2" CAL.	1.000 EACH	_____.____	_____.____
0206	632.0101 Trees (species) (size) (root) 13. Japanese Tree Lilac, 'Ivory Silk', B&B, 2" CAL.	10.000 EACH	_____.____	_____.____
0208	632.0101 Trees (species) (size) (root) 14. Maple, Amur 'Flame', B&B, 2" CAL.	3.000 EACH	_____.____	_____.____
0210	632.0101 Trees (species) (size) (root) 15. Musclewood, B&B, 2" CAL.	1.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0212	632.0101 Trees (species) (size) (root) 16. Pear, Ornamental 'Aristocrat', B&B, 2" CAL.	9.000 EACH	_____.____	_____.____
0214	632.0101 Trees (species) (size) (root) 17. Serviceberry, 'Spring Flurry', B&B, 2" CAL.	8.000 EACH	_____.____	_____.____
0216	632.0201 Shrubs (species) (size) (root) 01. Juniper, Pfitzer 'Kallay's Compact', CG, 24" SP.	14.000 EACH	_____.____	_____.____
0218	632.0201 Shrubs (species) (size) (root) 02. Honeysuckle, 'Kodiak Black', CG, 24" HT.	19.000 EACH	_____.____	_____.____
0220	632.0201 Shrubs (species) (size) (root) 03. Rose, 'Dwarf Pavement', CG, 18" SP.	54.000 EACH	_____.____	_____.____
0222	632.0201 Shrubs (species) (size) (root) 04. Spirea, 'Gold Mound', CG, 18" HT.	41.000 EACH	_____.____	_____.____
0224	632.0201 Shrubs (species) (size) (root) 05. Spirea, 'Tor', CG, 18" HT.	92.000 EACH	_____.____	_____.____
0226	632.0201 Shrubs (species) (size) (root) 06. Sumac, Fragrant 'Gro-Low', CG, 24" SP.	17.000 EACH	_____.____	_____.____
0228	632.9101 Landscape Planting Surveillance and Care Cycles	26.000 EACH	_____.____	_____.____
0230	634.0618 Posts Wood 4x6-Inch X 18-FT	31.000 EACH	_____.____	_____.____
0232	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	107.000 EACH	_____.____	_____.____
0234	637.2210 Signs Type II Reflective H	1,115.990 SF	_____.____	_____.____
0236	637.2215 Signs Type II Reflective H Folding	89.520 SF	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0238	637.2230 Signs Type II Reflective F	116.250 SF	_____.____	_____.____
0240	638.2102 Moving Signs Type II	1.000 EACH	_____.____	_____.____
0242	638.2602 Removing Signs Type II	118.000 EACH	_____.____	_____.____
0244	638.3000 Removing Small Sign Supports	43.000 EACH	_____.____	_____.____
0246	642.5201 Field Office Type C	1.000 EACH	_____.____	_____.____
0248	643.0300 Traffic Control Drums	94,773.000 DAY	_____.____	_____.____
0250	643.0420 Traffic Control Barricades Type III	32,043.000 DAY	_____.____	_____.____
0252	643.0500 Traffic Control Flexible Tubular Marker Posts	1,453.000 EACH	_____.____	_____.____
0254	643.0600 Traffic Control Flexible Tubular Marker Bases	1,453.000 EACH	_____.____	_____.____
0256	643.0705 Traffic Control Warning Lights Type A	44,882.000 DAY	_____.____	_____.____
0258	643.0715 Traffic Control Warning Lights Type C	22,787.000 DAY	_____.____	_____.____
0260	643.0800 Traffic Control Arrow Boards	1,270.000 DAY	_____.____	_____.____
0262	643.0900 Traffic Control Signs	39,033.000 DAY	_____.____	_____.____
0264	643.0920 Traffic Control Covering Signs Type II	20.000 EACH	_____.____	_____.____
0266	643.1000 Traffic Control Signs Fixed Message	155.250 SF	_____.____	_____.____
0268	643.1050 Traffic Control Signs PCMS	400.000 DAY	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0270	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0272	644.1410.S Temporary Pedestrian Surface Asphalt	250.000 SF	_____.____	_____.____
0274	644.1601.S Temporary Curb Ramp	4.000 EACH	_____.____	_____.____
0276	644.1616.S Temporary Pedestrian Safety Fence	100.000 LF	_____.____	_____.____
0278	645.0111 Geotextile Type DF Schedule A	359.000 SY	_____.____	_____.____
0280	645.0120 Geotextile Type HR	212.000 SY	_____.____	_____.____
0282	645.0135 Geotextile Type SR	10,616.000 SY	_____.____	_____.____
0284	646.1020 Marking Line Epoxy 4-Inch	9,728.000 LF	_____.____	_____.____
0286	646.5020 Marking Arrow Epoxy	31.000 EACH	_____.____	_____.____
0288	646.5120 Marking Word Epoxy	17.000 EACH	_____.____	_____.____
0290	646.5220 Marking Symbol Epoxy	4.000 EACH	_____.____	_____.____
0292	646.6020 Marking Stop Line Epoxy 12-Inch	670.000 LF	_____.____	_____.____
0294	646.7120 Marking Diagonal Epoxy 12-Inch	58.000 LF	_____.____	_____.____
0296	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	5,666.000 LF	_____.____	_____.____
0298	646.8120 Marking Curb Epoxy	218.000 LF	_____.____	_____.____
0300	646.8220 Marking Island Nose Epoxy	7.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0302	646.9000 Marking Removal Line 4-Inch	5,954.000 LF	_____.____	_____.____
0304	646.9100 Marking Removal Line 8-Inch	844.000 LF	_____.____	_____.____
0306	646.9200 Marking Removal Line Wide	70.000 LF	_____.____	_____.____
0308	646.9300 Marking Removal Special Marking	34.000 EACH	_____.____	_____.____
0310	649.0105 Temporary Marking Line Paint 4-Inch	16,337.000 LF	_____.____	_____.____
0312	649.0150 Temporary Marking Line Removable Tape 4-Inch	33,890.000 LF	_____.____	_____.____
0314	649.0205 Temporary Marking Line Paint 8-Inch	467.000 LF	_____.____	_____.____
0316	649.0250 Temporary Marking Line Removable Tape 8-Inch	1,847.000 LF	_____.____	_____.____
0318	649.0505 Temporary Marking Arrow Paint	12.000 EACH	_____.____	_____.____
0320	649.0550 Temporary Marking Arrow Removable Tape	26.000 EACH	_____.____	_____.____
0322	649.0805 Temporary Marking Stop Line Paint 18-Inch	106.000 LF	_____.____	_____.____
0324	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	404.000 LF	_____.____	_____.____
0326	650.4000 Construction Staking Storm Sewer	104.000 EACH	_____.____	_____.____
0328	650.4500 Construction Staking Subgrade	7,020.000 LF	_____.____	_____.____
0330	650.5500 Construction Staking Curb Gutter and Curb & Gutter	287.000 LF	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0332	650.7000 Construction Staking Concrete Pavement	8,165.000 LF	_____.____	_____.____
0334	650.8500 Construction Staking Electrical Installations (project) 01. 2260-07-70	LS	LUMP SUM	_____.____
0336	650.9000 Construction Staking Curb Ramps	133.000 EACH	_____.____	_____.____
0338	650.9910 Construction Staking Supplemental Control (project) 01. 2260-07-70	LS	LUMP SUM	_____.____
0340	650.9920 Construction Staking Slope Stakes	8,165.000 LF	_____.____	_____.____
0342	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	8,176.000 LF	_____.____	_____.____
0344	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	4,921.000 LF	_____.____	_____.____
0346	653.0140 Pull Boxes Steel 24x42-Inch	76.000 EACH	_____.____	_____.____
0348	653.0164 Pull Boxes Non-Conductive 24x42-Inch	11.000 EACH	_____.____	_____.____
0350	653.0905 Removing Pull Boxes	28.000 EACH	_____.____	_____.____
0352	654.0101 Concrete Bases Type 1	7.000 EACH	_____.____	_____.____
0354	654.0102 Concrete Bases Type 2	13.000 EACH	_____.____	_____.____
0356	654.0105 Concrete Bases Type 5	53.000 EACH	_____.____	_____.____
0358	654.0110 Concrete Bases Type 10	3.000 EACH	_____.____	_____.____
0360	654.0113 Concrete Bases Type 13	7.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0362	654.0200 Concrete Control Cabinet Bases Type 6	2.000 EACH	_____.____	_____.____
0364	654.0217 Concrete Control Cabinet Bases Type 9 Special	3.000 EACH	_____.____	_____.____
0366	655.0230 Cable Traffic Signal 5-14 AWG	2,351.000 LF	_____.____	_____.____
0368	655.0240 Cable Traffic Signal 7-14 AWG	573.000 LF	_____.____	_____.____
0370	655.0260 Cable Traffic Signal 12-14 AWG	3,822.000 LF	_____.____	_____.____
0372	655.0280 Cable Traffic Signal 19-14 AWG	385.000 LF	_____.____	_____.____
0374	655.0320 Cable Type UF 2-10 AWG Grounded	1,707.000 LF	_____.____	_____.____
0376	655.0515 Electrical Wire Traffic Signals 10 AWG	3,374.000 LF	_____.____	_____.____
0378	655.0610 Electrical Wire Lighting 12 AWG	14,306.000 LF	_____.____	_____.____
0380	655.0615 Electrical Wire Lighting 10 AWG	3,054.000 LF	_____.____	_____.____
0382	655.0620 Electrical Wire Lighting 8 AWG	8,061.000 LF	_____.____	_____.____
0384	655.0625 Electrical Wire Lighting 6 AWG	31,322.000 LF	_____.____	_____.____
0386	655.0630 Electrical Wire Lighting 4 AWG	5,490.000 LF	_____.____	_____.____
0388	655.0635 Electrical Wire Lighting 2 AWG	60.000 LF	_____.____	_____.____
0390	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. Lathrop Avenue	LS	LUMP SUM	_____.____
0392	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. Taylor Avenue	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0394	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. Drexel Avenue	LS	LUMP SUM	_____._____
0396	656.0200 Electrical Service Meter Breaker Pedestal (location) 04. West Lawn Avenue	LS	LUMP SUM	_____._____
0398	656.0200 Electrical Service Meter Breaker Pedestal (location) 05. Ashland Avenue	LS	LUMP SUM	_____._____
0400	657.0100 Pedestal Bases	7.000 EACH	_____._____	_____._____
0402	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	62.000 EACH	_____._____	_____._____
0404	657.0310 Poles Type 3	9.000 EACH	_____._____	_____._____
0406	657.0322 Poles Type 5-Aluminum	53.000 EACH	_____._____	_____._____
0408	657.0345 Poles Type 9	5.000 EACH	_____._____	_____._____
0410	657.0355 Poles Type 12	4.000 EACH	_____._____	_____._____
0412	657.0360 Poles Type 13	3.000 EACH	_____._____	_____._____
0414	657.0405 Traffic Signal Standards Aluminum 3.5-FT	1.000 EACH	_____._____	_____._____
0416	657.0410 Traffic Signal Standards Aluminum 9-FT	3.000 EACH	_____._____	_____._____
0418	657.0420 Traffic Signal Standards Aluminum 13-FT	1.000 EACH	_____._____	_____._____
0420	657.0425 Traffic Signal Standards Aluminum 15-FT	2.000 EACH	_____._____	_____._____
0422	657.0515 Monotube Arms 15-FT	1.000 EACH	_____._____	_____._____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0424	657.0525 Monotube Arms 25-FT	3.000 EACH	_____.____	_____.____
0426	657.0530 Monotube Arms 30-FT	1.000 EACH	_____.____	_____.____
0428	657.0535 Monotube Arms 35-FT	1.000 EACH	_____.____	_____.____
0430	657.0540 Monotube Arms 40-FT	4.000 EACH	_____.____	_____.____
0432	657.0545 Monotube Arms 45-FT	1.000 EACH	_____.____	_____.____
0434	657.0550 Monotube Arms 50-FT	1.000 EACH	_____.____	_____.____
0436	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	9.000 EACH	_____.____	_____.____
0438	657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	40.000 EACH	_____.____	_____.____
0440	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	25.000 EACH	_____.____	_____.____
0442	657.0806 Luminaire Arms Steel 6-FT	7.000 EACH	_____.____	_____.____
0444	658.0173 Traffic Signal Face 3S 12-Inch	40.000 EACH	_____.____	_____.____
0446	658.0174 Traffic Signal Face 4S 12-Inch	14.000 EACH	_____.____	_____.____
0448	658.0175 Traffic Signal Face 5S 12-Inch	2.000 EACH	_____.____	_____.____
0450	658.0416 Pedestrian Signal Face 16-Inch	24.000 EACH	_____.____	_____.____
0452	658.5069 Signal Mounting Hardware (location) 01. Lathrop Avenue	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0454	658.5069 Signal Mounting Hardware (location) 02. Taylor Avenue	LS	LUMP SUM	_____.____
0456	658.5069 Signal Mounting Hardware (location) 03. Drexel Avenue	LS	LUMP SUM	_____.____
0458	659.1125 Luminaires Utility LED C	12.000 EACH	_____.____	_____.____
0460	659.2130 Lighting Control Cabinets 120/240 30-Inch	2.000 EACH	_____.____	_____.____
0462	661.0200 Temporary Traffic Signals for Intersections (location) 01. Lathrop Avenue	LS	LUMP SUM	_____.____
0464	661.0200 Temporary Traffic Signals for Intersections (location) 02. Drexel Avenue	LS	LUMP SUM	_____.____
0466	670.0100 Field System Integrator	LS	LUMP SUM	_____.____
0468	670.0200 ITS Documentation	LS	LUMP SUM	_____.____
0470	671.0132 Conduit HDPE 3-Duct 2-Inch	3,592.000 LF	_____.____	_____.____
0472	673.0105 Communication Vault Type 1	3.000 EACH	_____.____	_____.____
0474	678.0048 Install Fiber Optic Cable Outdoor Plant 48-CT	3,693.000 LF	_____.____	_____.____
0476	678.0200 Fiber Optic Splice Enclosure	3.000 EACH	_____.____	_____.____
0478	678.0300 Fiber Optic Splice	12.000 EACH	_____.____	_____.____
0480	678.0500 Communication System Testing	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0482	678.0600 Install Ethernet Switches	3.000 EACH	_____.____	_____.____
0484	678.0700 Install Wireless Antennas	2.000 EACH	_____.____	_____.____
0486	690.0150 Sawing Asphalt	4,192.000 LF	_____.____	_____.____
0488	690.0250 Sawing Concrete	10,282.000 LF	_____.____	_____.____
0490	715.0415 Incentive Strength Concrete Pavement	14,194.000 DOL	1.00000	14,194.00
0492	715.0710 Optimized Aggregate Gradation Incentive	45,032.000 DOL	1.00000	45,032.00
0494	740.0440 Incentive IRI Ride	9,688.000 DOL	1.00000	9,688.00
0496	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,500.000 HRS	5.00000	12,500.00
0498	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	4,000.000 HRS	5.00000	20,000.00
0500	SPV.0035 Special 01. Colored Concrete Crosswalk	137.000 CY	_____.____	_____.____
0502	SPV.0035 Special 02. Topsoil Special	1,491.000 CY	_____.____	_____.____
0504	SPV.0060 Special 01. Inlet Covers Type DW	4.000 EACH	_____.____	_____.____
0506	SPV.0060 Special 02. Section Corner Monuments Special	4.000 EACH	_____.____	_____.____
0508	SPV.0060 Special 03. Utility Line Opening (ULO)	5.000 EACH	_____.____	_____.____
0510	SPV.0060 Special 04. 6-Count Fiber Optic Connector 200-FT	3.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0512	SPV.0060 Special 05. Removing Lighting Control Cabinets	2.000 EACH	_____.____	_____.____
0514	SPV.0060 Special 06. Storm Sewer Tap	54.000 EACH	_____.____	_____.____
0516	SPV.0060 Special 07. Reconstructing Sanitary Sewer Manholes	3.000 EACH	_____.____	_____.____
0518	SPV.0060 Special 08. Sanitary Sewer Manhole Covers Type J	43.000 EACH	_____.____	_____.____
0520	SPV.0060 Special 09. Moving Existing Bus Stop Shelter	1.000 EACH	_____.____	_____.____
0522	SPV.0060 Special 10. Traffic Signal Controller and Cabinet	3.000 EACH	_____.____	_____.____
0524	SPV.0060 Special 11. Luminaires Utility LED 139 Watts	39.000 EACH	_____.____	_____.____
0526	SPV.0060 Special 12. Luminaires Utility LED 66 Watts	26.000 EACH	_____.____	_____.____
0528	SPV.0060 Special 13. Install Existing Unit Duct Into New Pull Box	2.000 EACH	_____.____	_____.____
0530	SPV.0060 Special 14. Constructing Sanitary Sewer Manholes 4-FT	4.000 EACH	_____.____	_____.____
0532	SPV.0060 Special 15. Removing Existing Bus Stop Shelter	2.000 EACH	_____.____	_____.____
0534	SPV.0090 Special 01. Concrete Raised Median 24-Inch	1,490.000 LF	_____.____	_____.____
0536	SPV.0090 Special 02. Abandoning Sanitary Sewer 18-Inch	122.000 LF	_____.____	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0538	SPV.0090 Special 03. Sanitary Sewer PVC SDR 35 8-Inch	17.000 LF	_____.____	_____.____
0540	SPV.0090 Special 04. Sanitary Sewer PVC PS-46 18-Inch	124.000 LF	_____.____	_____.____
0542	SPV.0090 Special 05. Marking Contrast Epoxy 4-Inch	3,472.000 LF	_____.____	_____.____
0544	SPV.0090 Special 06. Marking Contrast Epoxy 8-Inch	2,663.000 LF	_____.____	_____.____
0546	SPV.0105 Special 01. Remove Traffic Signals Lathrop Avenue	LS	LUMP SUM	_____.____
0548	SPV.0105 Special 02. Remove Traffic Signals Taylor Avenue	LS	LUMP SUM	_____.____
0550	SPV.0105 Special 03. Remove Traffic Signals Drexel Avenue	LS	LUMP SUM	_____.____
0552	SPV.0105 Special 04. Transporting Traffic Signal and Intersection Lighting Materials Lathrop Av	LS	LUMP SUM	_____.____
0554	SPV.0105 Special 05. Transporting Traffic Signal and Intersection Lighting Materials Taylor Ave	LS	LUMP SUM	_____.____
0556	SPV.0105 Special 06. Transporting Traffic Signal and Intersection Lighting Materials Drexel Ave	LS	LUMP SUM	_____.____
0558	SPV.0105 Special 07. Video Detection System Lathrop Avenue	LS	LUMP SUM	_____.____
0560	SPV.0105 Special 08. Video Detection System Taylor Avenue	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0562	SPV.0105 Special 09. Video Detection System Drexel Avenue	LS	LUMP SUM	_____.____
0564	SPV.0105 Special 10. Microwave Based Traffic Sensor Lathrop Avenue	LS	LUMP SUM	_____.____
0566	SPV.0105 Special 11. Microwave Based Traffic Sensor Taylor Avenue	LS	LUMP SUM	_____.____
0568	SPV.0105 Special 12. Microwave Based Traffic Sensor Drexel Avenue	LS	LUMP SUM	_____.____
0570	SPV.0105 Special 13. Remove Loop Detector Wire and Lead-in Cable Lathrop Avenue	LS	LUMP SUM	_____.____
0572	SPV.0105 Special 14. Remove Loop Detector Wire and Lead-in Cable Taylor Avenue	LS	LUMP SUM	_____.____
0574	SPV.0105 Special 15. Remove Loop Detector Wire and Lead-in Cable Drexel Avenue	LS	LUMP SUM	_____.____
0576	SPV.0105 Special 16. Audible Pedestrian Signal System Lathrop Avenue	LS	LUMP SUM	_____.____
0578	SPV.0105 Special 17. Audible Pedestrian Signal System Taylor Avenue	LS	LUMP SUM	_____.____
0580	SPV.0105 Special 18. Audible Pedestrian Signal System Drexel Avenue	LS	LUMP SUM	_____.____
0582	SPV.0105 Special 19. Removing Business Sign 4125 Durand Avenue	LS	LUMP SUM	_____.____
0584	SPV.0105 Special 20. Removing Business Sign 4006 Durand Avenue	LS	LUMP SUM	_____.____
0586	SPV.0105 Special 21. Removing Business Sign 3317 Durand Avenue	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 **Project(s):** 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: **Alt Mbr ID:**

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0588	SPV.0120 Special 01. Water for Seeded Areas	85.000 MGAL	_____._____	_____._____
0590	SPV.0165 Special 01. Wall Modular Block Gravity Landscape Wall A	343.000 SF	_____._____	_____._____
0592	SPV.0165 Special 02. Wall Modular Block Gravity Landscape Wall B	298.000 SF	_____._____	_____._____
0594	SPV.0165 Special 03. Concrete Sidewalk Thickened Edge	2,574.000 SF	_____._____	_____._____
0596	SPV.0165 Special 04. Remove and Replace Brick Pavers	144.000 SF	_____._____	_____._____
0598	SPV.0180 Special 01. Shredded Hardwood Bark Mulch	446.000 SY	_____._____	_____._____
0600	SPV.0195 Special 01. Management of Solid Waste	1,112.000 TON	_____._____	_____._____
	Section: 0001		**Total:**	_____._____

Total Bid: _____._____

PLEASE ATTACH SCHEDULE OF ITEMS 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 3, 2019

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of September 10, 2019

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in all proposals. These wage rates are effective for all proposals in the September 10, 2019 letting. The updated wage rates are dated August 16, 2019 and are effective on or after August 26, 2019.

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: WI20190010 08/16/2019

Superseded General Decision Number: WI20180010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.60 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 calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate,if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date

0	01/04/2019
1	02/22/2019
2	05/17/2019
3	07/26/2019
4	08/16/2019

BRWI0001-002 06/01/2018

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

	Rates	Fringes
BRICKLAYER	$ 33.06	22.65

BRWI0002-002 06/01/2018

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.87	21.26

BRWI0002-005 06/01/2018

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

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 35.39	21.46

BRWI0003-002 06/01/2018

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

	Rates	Fringes

BRICKLAYER.....$ 33.44 22.27

BRWI0004-002 06/01/2018

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.66	23.35

BRWI0006-002 06/01/2018

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

	Rates	Fringes
BRICKLAYER	$ 34.30	21.41

BRWI0007-002 06/01/2018

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 34.82	22.59

BRWI0008-002 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.03	22.55

BRWI0011-002 06/01/2018

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 33.44	22.27

BRWI0019-002 06/01/2018

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

	Rates	Fringes
BRICKLAYER	$ 32.97	22.74

BRWI0034-002 06/01/2018

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 34.80	22.61

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 06/04/2018

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:.....	$ 34.21	20.46

ELEC0014-007 06/05/2018

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician.....	$ 26.25	13.92

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 06/01/2018

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	$ 39.50	30%+11.32

ELEC0158-002 06/04/2018

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
Electricians:.....	$ 32.50	19.68

ELEC0159-003 06/01/2018

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

	Rates	Fringes
Electricians:.....	$ 39.04	21.56

ELEC0219-004 06/01/2016

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

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

ELEC0242-005 05/16/2018

DOUGLAS COUNTY

	Rates	Fringes

Electricians:.....$ 36.85 26.17

ELEC0388-002 06/03/2018

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:.....	$ 32.55	19.02

ELEC0430-002 06/01/2019

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	$ 40.30	22.04

ELEC0494-005 06/01/2018

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	$ 39.31	24.69

ELEC0494-006 06/01/2018

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

	Rates	Fringes
Electricians:.....	$ 33.40	22.08

ELEC0494-013 06/01/2018

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	$ 19.56	15.78
Technician	$ 28.99	16.25

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 06/01/2018

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:	$ 32.18	18.59

ELEC0890-003 06/01/2018

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

	Rates	Fringes
Electricians:	$ 34.15	19.63

ELEC0953-001 07/01/2015

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

ENGI0139-005 06/03/2019

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 41.17	23.03
Group 2	$ 40.67	23.03
Group 3	$ 40.17	23.03
Group 4	$ 39.91	23.03
Group 5	$ 39.62	23.03
Group 6	$ 33.72	23.03

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.

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

IRON0008-002 06/03/2018

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

	Rates	Fringes
IRONWORKER	$ 32.98	27.47

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

IRON0008-003 06/03/2018

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

	Rates	Fringes
IRONWORKER	$ 34.88	27.72

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

IRON0383-001 06/01/2018

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	$ 35.00	25.22

IRON0498-005 06/01/2016

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

	Rates	Fringes
IRONWORKER	$ 36.29	30.77

IRON0512-008 05/01/2018

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

	Rates	Fringes
IRONWORKER	$ 37.10	10.10

IRON0512-021 05/01/2018

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

	Rates	Fringes
IRONWORKER	$ 32.64	10.10

LABO0113-002 06/03/2019

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		

Group 1	$ 29.02	22.00
Group 2	$ 29.17	22.00
Group 3	$ 29.37	22.00
Group 4	$ 29.52	22.00
Group 5	$ 29.67	22.00
Group 6	$ 25.51	22.00

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 06/03/2019

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 28.27	22.00
Group 2	$ 28.37	22.00
Group 3	$ 28.42	22.00
Group 4	$ 28.62	22.00
Group 5	$ 28.47	22.00
Group 6	$ 25.36	22.00

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 06/03/2019

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 28.08	22.00
Group 2	$ 28.23	22.00
Group 3	$ 28.43	22.00
Group 4	$ 28.40	22.00
Group 5	$ 28.73	22.00
Group 6	$ 25.22	22.00

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 06/03/2019

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	$ 32.84	17.54
Group 2	$ 32.94	17.54
Group 3	$ 32.99	17.54
Group 4	$ 33.19	17.54
Group 5	$ 33.04	17.54
Group 6	$ 29.47	17.54

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 06/03/2019

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 33.12	17.54
Group 2	$ 33.22	17.54
Group 3	$ 33.27	17.54
Group 4	$ 33.47	17.54
Group 5	$ 33.32	17.54
Group 6	$ 29.47	17.54

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 05/01/2017

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 30.33	17.27
Spray, Sandblast, Steel	$ 30.93	17.27
Repaint:		
Brush, Roller	$ 28.83	17.27
Spray, Sandblast, Steel	$ 29.43	17.27

PAIN0108-002 06/01/2017

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 33.74	18.95
Spray & Sandblast	$ 34.74	18.95

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 06/01/2018

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 31.60	23.51
Brush	$ 31.55	23.51
Spray & Sandblast	$ 32.30	23.51

PAIN0802-002 06/01/2017

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

	Rates	Fringes
PAINTER		
Brush	$ 28.25	17.72

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2017

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

	Rates	Fringes
PAINTER	$ 24.89	12.05

PAIN0934-001 06/01/2017

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 33.74	18.95
Spray	$ 34.74	18.95
Structural Steel	$ 33.89	18.95

PAIN1011-002 06/01/2017

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 24.86	12.23

PLAS0599-010 06/01/2017

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

AREA DESCRIPTIONS

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

COUNTIES

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

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, 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 06/01/2018

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 28.12	21.20
3 or more Axles; Euclids Dumptor & Articulated, Truck Mechanic	$ 28.27	21.20
WELL DRILLER	$ 16.52	3.70

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

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any

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

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

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

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

the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

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

Survey Rate Identifiers

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

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

Union Average Rate Identifiers

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

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

The request should be accompanied by a full statement of the interested party's position and by any information (wage

payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

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

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

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

==========

END OF GENERAL DECISION"

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

August 15, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #04: **2260-07-70, WISC 2019 626**
Durand Avenue, City of Racine
Kentucky St to Kearney Ave
STH 11
Racine County

Letting of September 10, 2019

This is Addendum No. 01, which provides for the following:

Special Provisions:

Added Special Provisions	
Article No.	Description
76	Material Stockpile and Equipment Storage

Plan Sheets:

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
453A	Standard Detail Drawing: Urban Doweled Concrete Pavement

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

2260-07-70

August 15, 2019

Special Provisions

76. Material Stockpile and Equipment Storage.

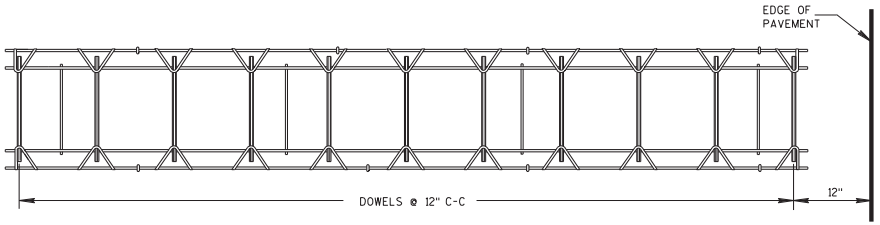
Submit a map showing all proposed material stockpile and equipment storage locations to the engineer 14 calendar days before either the preconstruction conference or proposed use, whichever comes first. Identify the purpose; length, width & height; and duration of material stockpile or equipment storage at each location. If outside of WisDOT Right-of-way, obtain written permission and necessary permits from the property owner and local governments/agencies and submit two copies to the engineer. Do not stockpile material or store equipment until the engineer approves.

SER-107-011 (20181019)

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Added: 453A

END OF ADDENDUM



PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6",6 ½"	NONE	12'
7",7 ½"	1"	14'
8",8 ½"	1 ¼"	15'
9",9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

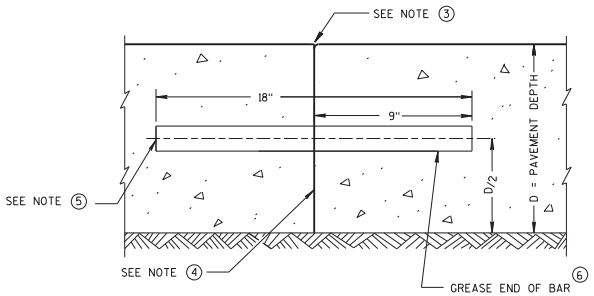
④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

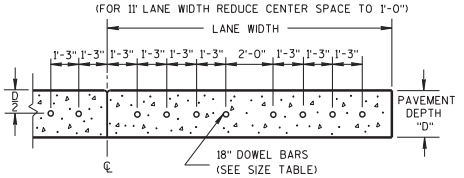
⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

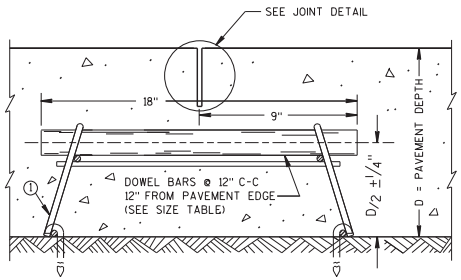
Addendum No. 01
ID 2260-07-70
Added Sheet 453A
August 15, 2019



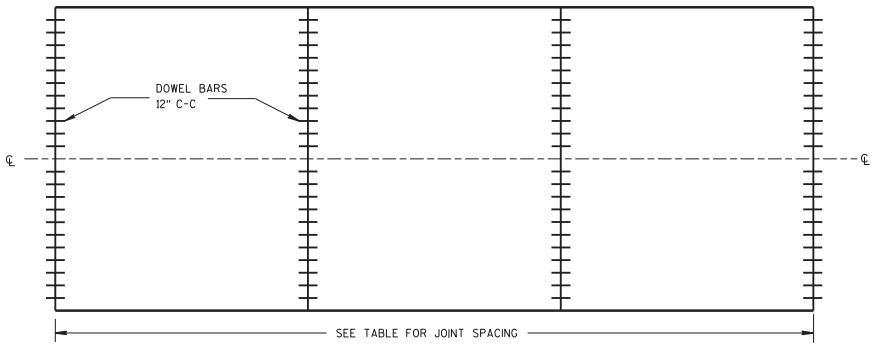
TRANSVERSE CONSTRUCTION JOINT



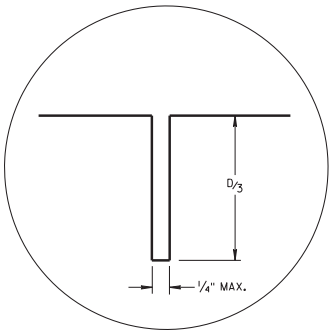
DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



DOWELED CONTRACTION JOINT



CONTRACTION JOINT LOCATIONS



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERVISOR
FHWA

6

S.D.D. 13 C 13-9

6

S.D.D. 13 C 13-9

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

August 27, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #04: **2260-07-70, WISC 2019 626**
Durand Ave, City of Racine
Kentucky St to Kearney Ave
STH 11
Racine County

Letting of September 10, 2019

This is Addendum No. 02, which provides for the following:

Special Provisions:

Deleted Special Provisions	
Article No.	Description
21	QMP Base Aggregate Dense 1 1/4-Inch Compaction, Item 371.1000.S

Schedule of Items:

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
371.1000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	Ton	23,218	-23,218	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
333	Miscellaneous Quantity: Table for QMP Base Aggregate Dense 1 1/4-Inch Compaction is deleted.

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

PROJECT ID: 2260-07-70

August 27, 2019

Special Provisions

21. DELETED

Schedule of Items
Attached, dated August 22, 2019 are the revised Schedule of Items Pages 1 - 21.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: Sheet 333.

END OF ADDENDUM

CONCRETE PAVEMENT

CATEGORY	STATION - STATION	LOCATION	415.0085 8 1/2-INCH STAGE 1 SY	415.0085 8 1/2-INCH STAGE 2 SY	415.0085 8 1/2-INCH STAGE 3 SY	415.1085 HES 8 1/2-INCH STAGE 1 SY	415.1085 HES 8 1/2-INCH STAGE 2 SY	415.1085 HES 8 1/2-INCH STAGE 3 SY	415.4100 JOINT FILLING STAGE 1 SY	415.4100 JOINT FILLING STAGE 2 SY	415.4100 JOINT FILLING STAGE 3 SY
0010	77+10 - 77+56	LT/RT	270	269	93	--	--	--	290	95	286
	77+56 - 80+86	LT/RT	1,251	1,033	436	--	--	--	1,340	467	1,123
	80+86 - 84+15	LT/RT	1,384	1,019	195	--	--	--	1,498	209	1,119
	84+15 - 87+50	LT/RT	1,271	1,081	322	--	--	--	1,392	356	1,163
	87+50 - 94+31	LT/RT	1,730	2,029	694	--	--	--	1,936	703	2,254
	94+31 - 97+63	LT/RT	1,123	941	256	--	--	--	1,239	256	1,026
	97+63 - 100+94	LT/RT	1,112	886	311	--	--	--	1,201	321	992
	100+94 - 104+40	LT/RT	1,113	1,064	255	--	--	--	1,229	255	1,157
	104+40 - 107+19	LT/RT	958	175	239	--	705	--	1,036	247	969
	107+19 - 110+50	LT/RT	1,360	2,265	--	552	183	--	2,085	--	2,583
	110+50 - 115+50	LT/RT	1,681	1,218	--	219	575	--	2,023	--	1,949
	115+50 - 120+50	LT/RT	1,334	794	370	--	560	--	1,479	357	1,512
	120+50 - 127+26	LT/RT	2,019	2,332	302	128	193	133	2,555	2,760	353
	127+26 - 133+86	LT/RT	1,942	2,470	--	--	--	--	2,138	2,676	--
	133+86 - 141+03	LT/RT	2,093	2,174	--	--	--	--	2,297	2,383	--
	SUBTOTALS		20,640	19,748	3,475	899	2,216	133	23,737	11,086	16,487
	TOTALS			43,863			3,248			51,311	

Addendum No. 2
ID 2260-07-70
Revised Sheet 333
August 27, 2019

BREAKER RUN

CATEGORY	STAGE	STATION - STATION	LOCATION	311.0110* TON
0010	1	77+10 - 77+56	LT	190
		77+56 - 80+86	LT	1,050
		80+86 - 84+15	LT	1,100
		84+15 - 87+50	LT	1,000
		87+50 - 94+31	LT	2,050
		94+31 - 97+63	LT	920
		97+63 - 100+94	LT	920
		100+94 - 104+40	LT	950
		104+40 - 107+19	LT	790
		107+19 - 110+50	LT	1,100
		110+50 - 115+50	LT	1,500
		115+50 - 120+50	LT	1,250
		120+50 - 127+26	LT	2,150
		127+26 - 133+86	LT	1,700
		133+86 - 141+03	LT	1,900
		STAGE 1 SUBTOTAL		18,570
	2	77+10 - 77+56	RT	270
		77+56 - 80+86	RT	1,400
		80+86 - 84+15	RT	1,250
		84+15 - 87+50	RT	1,350
		87+50 - 94+31	RT	2,100
		94+31 - 97+63	RT	1,200
		97+63 - 100+94	RT	1,150
		100+94 - 104+40	RT	1,250
		104+40 - 107+19	RT	1,050
		107+19 - 110+50	RT	1,450
		110+50 - 115+50	RT	1,400
		115+50 - 120+50	RT	1,750
		120+50 - 127+26	RT	2,150
		127+26 - 133+86	RT	2,100
		133+86 - 141+03	RT	1,950
		STAGE 2 SUBTOTAL		21,820
		TOTAL		40,390

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

QMP BASE AGGREGATE DENSE 1 1/4-INCH COMPACTION

CATEGORY	STATION - STATION	LOCATION	371.1000.S TON
0010	76+84.92 - 141+82.64	LT/RT	23,218
	TOTAL		23,218

CONCRETE PAVEMENT GAPS

CATEGORY	STATION - STATION	LOCATION	STAGE 1 415.0210 EACH	STAGE 2 415.0210 EACH
0010	104+73 - 107+68	RT	--	1
	111+12 - 111+93	LT	1	--
	113+50 - 117+60	RT	--	1
	120+63 - 121+68	RT	--	1
	LATHROP AVENUE	LT/RT	4	4
	TAYLOR AVENUE	LT/RT	3	4
	WEST BOULEVARD	LT/RT	1	--
	DREXEL AVENUE	LT/RT	4	4
	CARPENTER AVENUE	LT/RT	1	2
	UNDISTRIBUTED		2	2
	SUBTOTAL		16	19
	TOTAL		35	

CONCRETE PAVEMENT JOINT LAYOUT

CATEGORY	PROJECT	415.5110.S.01 LS
0010	2260-07-70	1
	TOTAL	1

PAVEMENT BARS

CATEGORY	STATION - STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
0010	77+10 - 141+03	LT/RT	6	106
	KENTUCKY STREET	LT/RT	-	60
	ORCHARD STREET	LT/RT	-	31
	RUSSET STREET	LT/RT	6	31
	LATHROP AVENUE	LT/RT	-	87
	WEST LAWN AVENUE	LT/RT	-	31
	CLEVELAND AVENUE	LT/RT	-	-
	ARTHUR AVENUE	LT/RT	-	31
	BLAINE AVENUE	LT/RT	-	60
	HAYES AVENUE	LT/RT	3	31
	TAYLOR AVENUE	LT/RT	-	35
	ELM LANE	LT/RT	-	26
	WEST BOULEVARD	LT/RT	-	42
	DREXEL AVENUE	LT/RT	2	76
	CARPENTER AVENUE	LT/RT	-	31
	GATES STREET	LT/RT	-	-
	ASHLAND AVENUE	LT/RT	5	31
	HAMLIN AVENUE	LT/RT	-	-
	KEARNEY AVENUE	LT/RT	-	34
	UNDISTRIBUTED		5	50
	TOTALS		27	791

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0120 Clearing	459.000 ID	_____._____	_____._____
0004	201.0220 Grubbing	459.000 ID	_____._____	_____._____
0006	204.0100 Removing Pavement	51,032.000 SY	_____._____	_____._____
0008	204.0150 Removing Curb & Gutter	350.000 LF	_____._____	_____._____
0010	204.0155 Removing Concrete Sidewalk	7,824.000 SY	_____._____	_____._____
0012	204.0170 Removing Fence	200.000 LF	_____._____	_____._____
0014	204.0195 Removing Concrete Bases	81.000 EACH	_____._____	_____._____
0016	204.0210 Removing Manholes	1.000 EACH	_____._____	_____._____
0018	204.0220 Removing Inlets	59.000 EACH	_____._____	_____._____
0020	204.0245 Removing Storm Sewer (size) 01. 8-Inch	99.000 LF	_____._____	_____._____
0022	204.0245 Removing Storm Sewer (size) 02. 10-Inch	649.000 LF	_____._____	_____._____
0024	204.0245 Removing Storm Sewer (size) 03. 12-Inch	1,302.000 LF	_____._____	_____._____
0026	204.0280 Sealing Pipes	28.000 EACH	_____._____	_____._____
0028	204.9060.S Removing (item description) 01. Removing Street Light Poles	50.000 EACH	_____._____	_____._____
0030	204.9060.S Removing (item description) 02. Removing Sanitary Sewer Manholes	3.000 EACH	_____._____	_____._____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	204.9090.S Removing (item description) 01. Removing Sanitary Sewer 10-Inch	99.000 LF	_____.____	_____.____
0034	205.0100 Excavation Common	59,026.000 CY	_____.____	_____.____
0036	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	1,728.000 TON	_____.____	_____.____
0038	213.0100 Finishing Roadway (project) 01. 2260-07-70	1.000 EACH	_____.____	_____.____
0040	305.0110 Base Aggregate Dense 3/4-Inch	11.000 TON	_____.____	_____.____
0042	305.0120 Base Aggregate Dense 1 1/4-Inch	23,218.000 TON	_____.____	_____.____
0044	310.0110 Base Aggregate Open-Graded	48.000 TON	_____.____	_____.____
0046	311.0110 Breaker Run	46,319.000 TON	_____.____	_____.____
0050	405.1000 Stamping Colored Concrete	144.000 CY	_____.____	_____.____
0052	415.0085 Concrete Pavement 8 1/2-Inch	43,863.000 SY	_____.____	_____.____
0054	415.0210 Concrete Pavement Gaps	35.000 EACH	_____.____	_____.____
0056	415.1085 Concrete Pavement HES 8 1/2-Inch	3,248.000 SY	_____.____	_____.____
0058	415.4100 Concrete Pavement Joint Filling	51,311.000 SY	_____.____	_____.____
0060	415.5110.S Concrete Pavement Joint Layout 01. 2260-07-70	1.000 LS	_____.____	_____.____
0062	416.0160 Concrete Driveway 6-Inch	2,880.000 SY	_____.____	_____.____
0064	416.0260 Concrete Driveway HES 6-Inch	389.000 SY	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0066	416.0610 Drilled Tie Bars	27.000 EACH	_____.____	_____.____
0068	416.0620 Drilled Dowel Bars	791.000 EACH	_____.____	_____.____
0070	455.0605 Tack Coat	34.000 GAL	_____.____	_____.____
0072	460.2000 Incentive Density HMA Pavement	200.000 DOL	1.00000	200.00
0074	460.6223 HMA Pavement 3 MT 58-28 S	170.000 TON	_____.____	_____.____
0076	460.6224 HMA Pavement 4 MT 58-28 S	75.000 TON	_____.____	_____.____
0078	465.0120 Asphaltic Surface Driveways and Field Entrances	305.000 TON	_____.____	_____.____
0080	465.0125 Asphaltic Surface Temporary	101.000 TON	_____.____	_____.____
0082	513.2001 Railing Pipe	38.000 LF	_____.____	_____.____
0084	520.8000 Concrete Collars for Pipe	61.000 EACH	_____.____	_____.____
0086	601.0405 Concrete Curb & Gutter 18-Inch Type A	3,920.000 LF	_____.____	_____.____
0088	601.0407 Concrete Curb & Gutter 18-Inch Type D	90.000 LF	_____.____	_____.____
0090	601.0409 Concrete Curb & Gutter 30-Inch Type A	4,280.000 LF	_____.____	_____.____
0092	601.0411 Concrete Curb & Gutter 30-Inch Type D	290.000 LF	_____.____	_____.____
0094	601.0452 Concrete Curb & Gutter Integral 30-Inch Type D	10,300.000 LF	_____.____	_____.____
0096	601.0600 Concrete Curb Pedestrian	1,110.000 LF	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0098	602.0410 Concrete Sidewalk 5-Inch	71,233.000 SF	_____.____	_____.____
0100	602.0505 Curb Ramp Detectable Warning Field Yellow	1,250.000 SF	_____.____	_____.____
0102	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	46.000 SF	_____.____	_____.____
0104	602.1500 Concrete Steps	160.000 SF	_____.____	_____.____
0106	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	774.000 LF	_____.____	_____.____
0108	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	135.000 LF	_____.____	_____.____
0110	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	1,630.000 LF	_____.____	_____.____
0112	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	391.000 LF	_____.____	_____.____
0114	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	5.000 LF	_____.____	_____.____
0116	611.0420 Reconstructing Manholes	15.000 EACH	_____.____	_____.____
0118	611.0535 Manhole Covers Type J-Special	9.000 EACH	_____.____	_____.____
0120	611.0624 Inlet Covers Type H	61.000 EACH	_____.____	_____.____
0122	611.0639 Inlet Covers Type H-S	14.000 EACH	_____.____	_____.____
0124	611.0666 Inlet Covers Type Z	15.000 EACH	_____.____	_____.____
0126	611.3003 Inlets 3-FT Diameter	13.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0128	611.3004 Inlets 4-FT Diameter	56.000 EACH	_____.____	_____.____
0130	611.3230 Inlets 2x3-FT	27.000 EACH	_____.____	_____.____
0132	611.8110 Adjusting Manhole Covers	36.000 EACH	_____.____	_____.____
0134	611.8115 Adjusting Inlet Covers	3.000 EACH	_____.____	_____.____
0136	612.0106 Pipe Underdrain 6-Inch	814.000 LF	_____.____	_____.____
0138	616.0204 Fence Chain Link 4-FT	100.000 LF	_____.____	_____.____
0140	616.0206 Fence Chain Link 6-FT	100.000 LF	_____.____	_____.____
0142	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0144	620.0300 Concrete Median Sloped Nose	416.000 SF	_____.____	_____.____
0146	624.0100 Water	100.000 MGAL	_____.____	_____.____
0148	625.0100 Topsoil	6,201.000 SY	_____.____	_____.____
0150	627.0200 Mulching	3,795.000 SY	_____.____	_____.____
0152	628.1104 Erosion Bales	64.000 EACH	_____.____	_____.____
0154	628.1504 Silt Fence	1,000.000 LF	_____.____	_____.____
0156	628.1520 Silt Fence Maintenance	1,000.000 LF	_____.____	_____.____
0158	628.1905 Mobilizations Erosion Control	9.000 EACH	_____.____	_____.____
0160	628.1910 Mobilizations Emergency Erosion Control	6.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0162	628.2006 Erosion Mat Urban Class I Type A	3,795.000 SY	_____.____	_____.____
0164	628.7005 Inlet Protection Type A	96.000 EACH	_____.____	_____.____
0166	628.7010 Inlet Protection Type B	13.000 EACH	_____.____	_____.____
0168	628.7015 Inlet Protection Type C	155.000 EACH	_____.____	_____.____
0170	628.7560 Tracking Pads	2.000 EACH	_____.____	_____.____
0172	629.0210 Fertilizer Type B	5.600 CWT	_____.____	_____.____
0174	630.0130 Seeding Mixture No. 30	68.000 LB	_____.____	_____.____
0176	630.0200 Seeding Temporary	103.000 LB	_____.____	_____.____
0178	631.0300 Sod Water	114.000 MGAL	_____.____	_____.____
0180	631.1000 Sod Lawn	4,418.000 SY	_____.____	_____.____
0182	632.0101 Trees (species) (size) (root) 01. Elm, 'New Horizon', B&B, 2.5" CAL.	5.000 EACH	_____.____	_____.____
0184	632.0101 Trees (species) (size) (root) 02. Elm, 'Princeton', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0186	632.0101 Trees (species) (size) (root) 03. Hackberry, 'Chicagoland', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0188	632.0101 Trees (species) (size) (root) 04. Honeylocust, Thornless 'Shademaster', B&B, 2.5" CAL.	5.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0190	632.0101 Trees (species) (size) (root) 05. Kentucky Coffeetree, 'Espresso', B&B, 2.5" CAL.	7.000 EACH	_____.____	_____.____
0192	632.0101 Trees (species) (size) (root) 06. London Planetree, 'Exclamation', B&B, 2.5" CAL.	4.000 EACH	_____.____	_____.____
0194	632.0101 Trees (species) (size) (root) 07. Maple, Freeman 'Armstrong', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0196	632.0101 Trees (species) (size) (root) 08. Maple, Red 'Sun Valley', B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0198	632.0101 Trees (species) (size) (root) 09. Maple, State Street, B&B, 2.5" CAL.	5.000 EACH	_____.____	_____.____
0200	632.0101 Trees (species) (size) (root) 10. Oak, Heritage, B&B, 2.5" CAL.	6.000 EACH	_____.____	_____.____
0202	632.0101 Trees (species) (size) (root) 11. Crabapple, 'Adirondack', B&B, 2" CAL.	2.000 EACH	_____.____	_____.____
0204	632.0101 Trees (species) (size) (root) 12. Dogwood, Cornelian Cherry 'Golden Glory', B&B, 2" CAL.	1.000 EACH	_____.____	_____.____
0206	632.0101 Trees (species) (size) (root) 13. Japanese Tree Lilac, 'Ivory Silk', B&B, 2" CAL.	10.000 EACH	_____.____	_____.____
0208	632.0101 Trees (species) (size) (root) 14. Maple, Amur 'Flame', B&B, 2" CAL.	3.000 EACH	_____.____	_____.____
0210	632.0101 Trees (species) (size) (root) 15. Musclewood, B&B, 2" CAL.	1.000 EACH	_____.____	_____.____
0212	632.0101 Trees (species) (size) (root) 16. Pear, Ornamental 'Aristocrat', B&B, 2" CAL.	9.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0214	632.0101 Trees (species) (size) (root) 17. Serviceberry, 'Spring Flurry', B&B, 2" CAL.	8.000 EACH	_____.____	_____.____
0216	632.0201 Shrubs (species) (size) (root) 01. Juniper, Pfitzer 'Kallay's Compact', CG, 24" SP.	14.000 EACH	_____.____	_____.____
0218	632.0201 Shrubs (species) (size) (root) 02. Honeysuckle, 'Kodiak Black', CG, 24" HT.	19.000 EACH	_____.____	_____.____
0220	632.0201 Shrubs (species) (size) (root) 03. Rose, 'Dwarf Pavement', CG, 18" SP.	54.000 EACH	_____.____	_____.____
0222	632.0201 Shrubs (species) (size) (root) 04. Spirea, 'Gold Mound', CG, 18" HT.	41.000 EACH	_____.____	_____.____
0224	632.0201 Shrubs (species) (size) (root) 05. Spirea, 'Tor', CG, 18" HT.	92.000 EACH	_____.____	_____.____
0226	632.0201 Shrubs (species) (size) (root) 06. Sumac, Fragrant 'Gro-Low', CG, 24" SP.	17.000 EACH	_____.____	_____.____
0228	632.9101 Landscape Planting Surveillance and Care Cycles	26.000 EACH	_____.____	_____.____
0230	634.0618 Posts Wood 4x6-Inch X 18-FT	31.000 EACH	_____.____	_____.____
0232	634.0816 Posts Tubular Steel 2x2-Inch X 16-FT	107.000 EACH	_____.____	_____.____
0234	637.2210 Signs Type II Reflective H	1,115.990 SF	_____.____	_____.____
0236	637.2215 Signs Type II Reflective H Folding	89.520 SF	_____.____	_____.____
0238	637.2230 Signs Type II Reflective F	116.250 SF	_____.____	_____.____
0240	638.2102 Moving Signs Type II	1.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0242	638.2602 Removing Signs Type II	118.000 EACH	_____.____	_____.____
0244	638.3000 Removing Small Sign Supports	43.000 EACH	_____.____	_____.____
0246	642.5201 Field Office Type C	1.000 EACH	_____.____	_____.____
0248	643.0300 Traffic Control Drums	94,773.000 DAY	_____.____	_____.____
0250	643.0420 Traffic Control Barricades Type III	32,043.000 DAY	_____.____	_____.____
0252	643.0500 Traffic Control Flexible Tubular Marker Posts	1,453.000 EACH	_____.____	_____.____
0254	643.0600 Traffic Control Flexible Tubular Marker Bases	1,453.000 EACH	_____.____	_____.____
0256	643.0705 Traffic Control Warning Lights Type A	44,882.000 DAY	_____.____	_____.____
0258	643.0715 Traffic Control Warning Lights Type C	22,787.000 DAY	_____.____	_____.____
0260	643.0800 Traffic Control Arrow Boards	1,270.000 DAY	_____.____	_____.____
0262	643.0900 Traffic Control Signs	39,033.000 DAY	_____.____	_____.____
0264	643.0920 Traffic Control Covering Signs Type II	20.000 EACH	_____.____	_____.____
0266	643.1000 Traffic Control Signs Fixed Message	155.250 SF	_____.____	_____.____
0268	643.1050 Traffic Control Signs PCMS	400.000 DAY	_____.____	_____.____
0270	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0272	644.1410.S Temporary Pedestrian Surface Asphalt	250.000 SF	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0274	644.1601.S Temporary Curb Ramp	4.000 EACH	_____.____	_____.____
0276	644.1616.S Temporary Pedestrian Safety Fence	100.000 LF	_____.____	_____.____
0278	645.0111 Geotextile Type DF Schedule A	359.000 SY	_____.____	_____.____
0280	645.0120 Geotextile Type HR	212.000 SY	_____.____	_____.____
0282	645.0135 Geotextile Type SR	10,616.000 SY	_____.____	_____.____
0284	646.1020 Marking Line Epoxy 4-Inch	9,728.000 LF	_____.____	_____.____
0286	646.5020 Marking Arrow Epoxy	31.000 EACH	_____.____	_____.____
0288	646.5120 Marking Word Epoxy	17.000 EACH	_____.____	_____.____
0290	646.5220 Marking Symbol Epoxy	4.000 EACH	_____.____	_____.____
0292	646.6020 Marking Stop Line Epoxy 12-Inch	670.000 LF	_____.____	_____.____
0294	646.7120 Marking Diagonal Epoxy 12-Inch	58.000 LF	_____.____	_____.____
0296	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	5,666.000 LF	_____.____	_____.____
0298	646.8120 Marking Curb Epoxy	218.000 LF	_____.____	_____.____
0300	646.8220 Marking Island Nose Epoxy	7.000 EACH	_____.____	_____.____
0302	646.9000 Marking Removal Line 4-Inch	5,954.000 LF	_____.____	_____.____
0304	646.9100 Marking Removal Line 8-Inch	844.000 LF	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0306	646.9200 Marking Removal Line Wide	70.000 LF	_____.____	_____.____
0308	646.9300 Marking Removal Special Marking	34.000 EACH	_____.____	_____.____
0310	649.0105 Temporary Marking Line Paint 4-Inch	16,337.000 LF	_____.____	_____.____
0312	649.0150 Temporary Marking Line Removable Tape 4-Inch	33,890.000 LF	_____.____	_____.____
0314	649.0205 Temporary Marking Line Paint 8-Inch	467.000 LF	_____.____	_____.____
0316	649.0250 Temporary Marking Line Removable Tape 8-Inch	1,847.000 LF	_____.____	_____.____
0318	649.0505 Temporary Marking Arrow Paint	12.000 EACH	_____.____	_____.____
0320	649.0550 Temporary Marking Arrow Removable Tape	26.000 EACH	_____.____	_____.____
0322	649.0805 Temporary Marking Stop Line Paint 18-Inch	106.000 LF	_____.____	_____.____
0324	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	404.000 LF	_____.____	_____.____
0326	650.4000 Construction Staking Storm Sewer	104.000 EACH	_____.____	_____.____
0328	650.4500 Construction Staking Subgrade	7,020.000 LF	_____.____	_____.____
0330	650.5500 Construction Staking Curb Gutter and Curb & Gutter	287.000 LF	_____.____	_____.____
0332	650.7000 Construction Staking Concrete Pavement	8,165.000 LF	_____.____	_____.____
0334	650.8500 Construction Staking Electrical Installations (project) 01. 2260-07-70	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

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	650.9000 Construction Staking Curb Ramps	133.000 EACH	_____._____	_____._____
0338	650.9910 Construction Staking Supplemental Control (project) 01. 2260-07-70	LS	LUMP SUM	_____._____
0340	650.9920 Construction Staking Slope Stakes	8,165.000 LF	_____._____	_____._____
0342	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	8,176.000 LF	_____._____	_____._____
0344	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	4,921.000 LF	_____._____	_____._____
0346	653.0140 Pull Boxes Steel 24x42-Inch	76.000 EACH	_____._____	_____._____
0348	653.0164 Pull Boxes Non-Conductive 24x42-Inch	11.000 EACH	_____._____	_____._____
0350	653.0905 Removing Pull Boxes	28.000 EACH	_____._____	_____._____
0352	654.0101 Concrete Bases Type 1	7.000 EACH	_____._____	_____._____
0354	654.0102 Concrete Bases Type 2	13.000 EACH	_____._____	_____._____
0356	654.0105 Concrete Bases Type 5	53.000 EACH	_____._____	_____._____
0358	654.0110 Concrete Bases Type 10	3.000 EACH	_____._____	_____._____
0360	654.0113 Concrete Bases Type 13	7.000 EACH	_____._____	_____._____
0362	654.0200 Concrete Control Cabinet Bases Type 6	2.000 EACH	_____._____	_____._____
0364	654.0217 Concrete Control Cabinet Bases Type 9 Special	3.000 EACH	_____._____	_____._____
0366	655.0230 Cable Traffic Signal 5-14 AWG	2,351.000 LF	_____._____	_____._____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0368	655.0240 Cable Traffic Signal 7-14 AWG	573.000 LF	_____.____	_____.____
0370	655.0260 Cable Traffic Signal 12-14 AWG	3,822.000 LF	_____.____	_____.____
0372	655.0280 Cable Traffic Signal 19-14 AWG	385.000 LF	_____.____	_____.____
0374	655.0320 Cable Type UF 2-10 AWG Grounded	1,707.000 LF	_____.____	_____.____
0376	655.0515 Electrical Wire Traffic Signals 10 AWG	3,374.000 LF	_____.____	_____.____
0378	655.0610 Electrical Wire Lighting 12 AWG	14,306.000 LF	_____.____	_____.____
0380	655.0615 Electrical Wire Lighting 10 AWG	3,054.000 LF	_____.____	_____.____
0382	655.0620 Electrical Wire Lighting 8 AWG	8,061.000 LF	_____.____	_____.____
0384	655.0625 Electrical Wire Lighting 6 AWG	31,322.000 LF	_____.____	_____.____
0386	655.0630 Electrical Wire Lighting 4 AWG	5,490.000 LF	_____.____	_____.____
0388	655.0635 Electrical Wire Lighting 2 AWG	60.000 LF	_____.____	_____.____
0390	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. Lathrop Avenue	LS	LUMP SUM	_____.____
0392	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. Taylor Avenue	LS	LUMP SUM	_____.____
0394	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. Drexel Avenue	LS	LUMP SUM	_____.____
0396	656.0200 Electrical Service Meter Breaker Pedestal (location) 04. West Lawn Avenue	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0398	656.0200 Electrical Service Meter Breaker Pedestal (location) 05. Ashland Avenue	LS	LUMP SUM	_____._____
0400	657.0100 Pedestal Bases	7.000 EACH	_____._____	_____._____
0402	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	62.000 EACH	_____._____	_____._____
0404	657.0310 Poles Type 3	9.000 EACH	_____._____	_____._____
0406	657.0322 Poles Type 5-Aluminum	53.000 EACH	_____._____	_____._____
0408	657.0345 Poles Type 9	5.000 EACH	_____._____	_____._____
0410	657.0355 Poles Type 12	4.000 EACH	_____._____	_____._____
0412	657.0360 Poles Type 13	3.000 EACH	_____._____	_____._____
0414	657.0405 Traffic Signal Standards Aluminum 3.5-FT	1.000 EACH	_____._____	_____._____
0416	657.0410 Traffic Signal Standards Aluminum 9-FT	3.000 EACH	_____._____	_____._____
0418	657.0420 Traffic Signal Standards Aluminum 13-FT	1.000 EACH	_____._____	_____._____
0420	657.0425 Traffic Signal Standards Aluminum 15-FT	2.000 EACH	_____._____	_____._____
0422	657.0515 Monotube Arms 15-FT	1.000 EACH	_____._____	_____._____
0424	657.0525 Monotube Arms 25-FT	3.000 EACH	_____._____	_____._____
0426	657.0530 Monotube Arms 30-FT	1.000 EACH	_____._____	_____._____
0428	657.0535 Monotube Arms 35-FT	1.000 EACH	_____._____	_____._____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0430	657.0540 Monotube Arms 40-FT	4.000 EACH	_____.____	_____.____
0432	657.0545 Monotube Arms 45-FT	1.000 EACH	_____.____	_____.____
0434	657.0550 Monotube Arms 50-FT	1.000 EACH	_____.____	_____.____
0436	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	9.000 EACH	_____.____	_____.____
0438	657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	40.000 EACH	_____.____	_____.____
0440	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	25.000 EACH	_____.____	_____.____
0442	657.0806 Luminaire Arms Steel 6-FT	7.000 EACH	_____.____	_____.____
0444	658.0173 Traffic Signal Face 3S 12-Inch	40.000 EACH	_____.____	_____.____
0446	658.0174 Traffic Signal Face 4S 12-Inch	14.000 EACH	_____.____	_____.____
0448	658.0175 Traffic Signal Face 5S 12-Inch	2.000 EACH	_____.____	_____.____
0450	658.0416 Pedestrian Signal Face 16-Inch	24.000 EACH	_____.____	_____.____
0452	658.5069 Signal Mounting Hardware (location) 01. Lathrop Avenue	LS	LUMP SUM	_____.____
0454	658.5069 Signal Mounting Hardware (location) 02. Taylor Avenue	LS	LUMP SUM	_____.____
0456	658.5069 Signal Mounting Hardware (location) 03. Drexel Avenue	LS	LUMP SUM	_____.____
0458	659.1125 Luminaires Utility LED C	12.000 EACH	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0460	659.2130 Lighting Control Cabinets 120/240 30-Inch	2.000 EACH	_____.____	_____.____
0462	661.0200 Temporary Traffic Signals for Intersections (location) 01. Lathrop Avenue	LS	LUMP SUM	_____.____
0464	661.0200 Temporary Traffic Signals for Intersections (location) 02. Drexel Avenue	LS	LUMP SUM	_____.____
0466	670.0100 Field System Integrator	LS	LUMP SUM	_____.____
0468	670.0200 ITS Documentation	LS	LUMP SUM	_____.____
0470	671.0132 Conduit HDPE 3-Duct 2-Inch	3,592.000 LF	_____.____	_____.____
0472	673.0105 Communication Vault Type 1	3.000 EACH	_____.____	_____.____
0474	678.0048 Install Fiber Optic Cable Outdoor Plant 48-CT	3,693.000 LF	_____.____	_____.____
0476	678.0200 Fiber Optic Splice Enclosure	3.000 EACH	_____.____	_____.____
0478	678.0300 Fiber Optic Splice	12.000 EACH	_____.____	_____.____
0480	678.0500 Communication System Testing	LS	LUMP SUM	_____.____
0482	678.0600 Install Ethernet Switches	3.000 EACH	_____.____	_____.____
0484	678.0700 Install Wireless Antennas	2.000 EACH	_____.____	_____.____
0486	690.0150 Sawing Asphalt	4,192.000 LF	_____.____	_____.____
0488	690.0250 Sawing Concrete	10,282.000 LF	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0490	715.0415 Incentive Strength Concrete Pavement	14,194.000 DOL	1.00000	14,194.00
0492	715.0710 Optimized Aggregate Gradation Incentive	45,032.000 DOL	1.00000	45,032.00
0494	740.0440 Incentive IRI Ride	9,688.000 DOL	1.00000	9,688.00
0496	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,500.000 HRS	5.00000	12,500.00
0498	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	4,000.000 HRS	5.00000	20,000.00
0500	SPV.0035 Special 01. Colored Concrete Crosswalk	137.000 CY	_____._____	_____._____
0502	SPV.0035 Special 02. Topsoil Special	1,491.000 CY	_____._____	_____._____
0504	SPV.0060 Special 01. Inlet Covers Type DW	4.000 EACH	_____._____	_____._____
0506	SPV.0060 Special 02. Section Corner Monuments Special	4.000 EACH	_____._____	_____._____
0508	SPV.0060 Special 03. Utility Line Opening (ULO)	5.000 EACH	_____._____	_____._____
0510	SPV.0060 Special 04. 6-Count Fiber Optic Connector 200-FT	3.000 EACH	_____._____	_____._____
0512	SPV.0060 Special 05. Removing Lighting Control Cabinets	2.000 EACH	_____._____	_____._____
0514	SPV.0060 Special 06. Storm Sewer Tap	54.000 EACH	_____._____	_____._____
0516	SPV.0060 Special 07. Reconstructing Sanitary Sewer Manholes	3.000 EACH	_____._____	_____._____
0518	SPV.0060 Special 08. Sanitary Sewer Manhole Covers Type J	43.000 EACH	_____._____	_____._____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0520	SPV.0060 Special 09. Moving Existing Bus Stop Shelter	1.000 EACH	_____.____	_____.____
0522	SPV.0060 Special 10. Traffic Signal Controller and Cabinet	3.000 EACH	_____.____	_____.____
0524	SPV.0060 Special 11. Luminaires Utility LED 139 Watts	39.000 EACH	_____.____	_____.____
0526	SPV.0060 Special 12. Luminaires Utility LED 66 Watts	26.000 EACH	_____.____	_____.____
0528	SPV.0060 Special 13. Install Existing Unit Duct Into New Pull Box	2.000 EACH	_____.____	_____.____
0530	SPV.0060 Special 14. Constructing Sanitary Sewer Manholes 4-FT	4.000 EACH	_____.____	_____.____
0532	SPV.0060 Special 15. Removing Existing Bus Stop Shelter	2.000 EACH	_____.____	_____.____
0534	SPV.0090 Special 01. Concrete Raised Median 24-Inch	1,490.000 LF	_____.____	_____.____
0536	SPV.0090 Special 02. Abandoning Sanitary Sewer 18-Inch	122.000 LF	_____.____	_____.____
0538	SPV.0090 Special 03. Sanitary Sewer PVC SDR 35 8-Inch	17.000 LF	_____.____	_____.____
0540	SPV.0090 Special 04. Sanitary Sewer PVC PS-46 18-Inch	124.000 LF	_____.____	_____.____
0542	SPV.0090 Special 05. Marking Contrast Epoxy 4-Inch	3,472.000 LF	_____.____	_____.____
0544	SPV.0090 Special 06. Marking Contrast Epoxy 8-Inch	2,663.000 LF	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0546	SPV.0105 Special 01. Remove Traffic Signals Lathrop Avenue	LS	LUMP SUM	_____.____
0548	SPV.0105 Special 02. Remove Traffic Signals Taylor Avenue	LS	LUMP SUM	_____.____
0550	SPV.0105 Special 03. Remove Traffic Signals Drexel Avenue	LS	LUMP SUM	_____.____
0552	SPV.0105 Special 04. Transporting Traffic Signal and Intersection Lighting Materials Lathrop Av	LS	LUMP SUM	_____.____
0554	SPV.0105 Special 05. Transporting Traffic Signal and Intersection Lighting Materials Taylor Ave	LS	LUMP SUM	_____.____
0556	SPV.0105 Special 06. Transporting Traffic Signal and Intersection Lighting Materials Drexel Ave	LS	LUMP SUM	_____.____
0558	SPV.0105 Special 07. Video Detection System Lathrop Avenue	LS	LUMP SUM	_____.____
0560	SPV.0105 Special 08. Video Detection System Taylor Avenue	LS	LUMP SUM	_____.____
0562	SPV.0105 Special 09. Video Detection System Drexel Avenue	LS	LUMP SUM	_____.____
0564	SPV.0105 Special 10. Microwave Based Traffic Sensor Lathrop Avenue	LS	LUMP SUM	_____.____
0566	SPV.0105 Special 11. Microwave Based Traffic Sensor Taylor Avenue	LS	LUMP SUM	_____.____
0568	SPV.0105 Special 12. Microwave Based Traffic Sensor Drexel Avenue	LS	LUMP SUM	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0570	SPV.0105 Special 13. Remove Loop Detector Wire and Lead-in Cable Lathrop Avenue	LS	LUMP SUM	_____.____
0572	SPV.0105 Special 14. Remove Loop Detector Wire and Lead-in Cable Taylor Avenue	LS	LUMP SUM	_____.____
0574	SPV.0105 Special 15. Remove Loop Detector Wire and Lead-in Cable Drexel Avenue	LS	LUMP SUM	_____.____
0576	SPV.0105 Special 16. Audible Pedestrian Signal System Lathrop Avenue	LS	LUMP SUM	_____.____
0578	SPV.0105 Special 17. Audible Pedestrian Signal System Taylor Avenue	LS	LUMP SUM	_____.____
0580	SPV.0105 Special 18. Audible Pedestrian Signal System Drexel Avenue	LS	LUMP SUM	_____.____
0582	SPV.0105 Special 19. Removing Business Sign 4125 Durand Avenue	LS	LUMP SUM	_____.____
0584	SPV.0105 Special 20. Removing Business Sign 4006 Durand Avenue	LS	LUMP SUM	_____.____
0586	SPV.0105 Special 21. Removing Business Sign 3317 Durand Avenue	LS	LUMP SUM	_____.____
0588	SPV.0120 Special 01. Water for Seeded Areas	85.000 MGAL	_____.____	_____.____
0590	SPV.0165 Special 01. Wall Modular Block Gravity Landscape Wall A	343.000 SF	_____.____	_____.____
0592	SPV.0165 Special 02. Wall Modular Block Gravity Landscape Wall B	298.000 SF	_____.____	_____.____
0594	SPV.0165 Special 03. Concrete Sidewalk Thickened Edge	2,574.000 SF	_____.____	_____.____

Proposal ID: 20190910004 Project(s): 2260-07-70

Federal ID(s): WISC 2019626

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0596	SPV.0165 Special 04. Remove and Replace Brick Pavers	144.000 SF	_____._____	_____._____
0598	SPV.0180 Special 01. Shredded Hardwood Bark Mulch	446.000 SY	_____._____	_____._____
0600	SPV.0195 Special 01. Management of Solid Waste	1,112.000 TON	_____._____	_____._____
	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 6, 2019

NOTICE TO ALL CONTRACTORS:

Proposal #04: **2260-07-70, WISC 2019 626**
Durand Avenue, City of Racine
Kentucky St to Kearney Ave
STH 11
Racine County

Letting of September 10, 2019

This is Addendum No. 03, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
31	Geotextile Type SR

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. 03

2260-07-70

September 6, 2019

Special Provisions

31. Geotextile Type SR.

Replace entire article language with the following:

Provide type SR geotextile fabric conforming to standard spec 645 and conforming to the following physical properties:

Test	Method	Value[1]
Minimum grab tensile strength	ASTM D4632	170 lb
Minimum puncture strength	ASTM D6241	350 lb
Maximum apparent opening size	ASTM D4751	No. 70
Minimum permittivity	ASTM D4491	0.35 s^{-1}

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

END OF ADDENDUM