

HIGHWAY WORK PROPOSAL

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

Proposal Number:

Ø 5

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
Dane	5310-02-70	WISC 2015 084	Spring Green - Madison CTH KP to Westview Ct,Village of Cross Plains	USH 14
Dane	5310-02-73		Spring Green - Madison CTH KP to Westview Ct,Village of Cross Plains	USH 14

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

Proposal Guaranty Required, \$ 75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: February 10, 2015 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code
Contract Completion Time May 27, 2016	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 9%	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)

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

(Date Commission Expires)

Notary Seal

(Bidder Signature)

(Print or Type Bidder Name)

(Bidder Title)

For Department Use Only

Type of Work Construction of Structure B-13-0799, removal of existing structure, pavement removal, clearing, grubbing, common excavation, borrow, select crushed material, dense graded base, storm sewer, sanitary sewer, water main, lighting, concrete pavement, concrete curb and gutter, HMA pavement, traffic signals, retaining walls, permanent signing, pavement marking, and finishing.	Notice of Award Dated	Date Guaranty Returned
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**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

- (1) Obtain bidding proposals as specified in **section 102** of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:
 1. Electronic bid on the internet.
 2. Electronic bid on a printout with accompanying diskette or CD ROM.
 3. Paper bid under a waiver of the electronic submittal requirements.
- (2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.
- (3) The department will provide bidding information through the department's web site at <http://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm>. The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 P.M. local time on the Thursday before the letting. Check the department's web site after 5:00 P.M. local time on the Thursday before the letting to ensure all addenda have been accounted for before preparing the bid. When bidding using methods 1 and 2 above, check the Bid Express™ on-line bidding exchange at <http://www.bidx.com/> after 5:00 P.M. local time on the Thursday before the letting to ensure that the latest schedule of items Expedite file (*.ebs or *.00x) is used to submit the final bid.
- (4) Interested parties can subscribe to the Bid Express™ on-line bidding exchange by following the instructions provided at the www.bidx.com web site or by contacting:

Info Tech Inc.
5700 SW 34th Street, Suite 1235
Gainesville, FL 32608-5371
email: <mailto:customer.support@bidx.com>

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at <http://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm> or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the departments web site listed above or by picking up the addenda at the Bureau of Highway Construction, Room 601, 4802 Sheboygan Avenue, Madison, WI, during regular business hours.

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 <http://www.dot.wisconsin.gov/business/engrserv/bid-letting-information.htm>. 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

DT1303 1/2006

Wisconsin Department of Transportation

Proposal Number	Project Number	Letting Date
Name of Principal		
Name of Surety	State in Which Surety is Organized	

We, the above-named Principal and the above-named Surety, are held and firmly bound unto the State of Wisconsin in the sum equal to the Proposal Guaranty for the total bid submitted for the payment to be made; we jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns. The condition of this obligation is that the Principal has submitted a bid proposal to the State of Wisconsin acting through the Department of Transportation for the improvement designated by the Proposal Number and Letting Date indicated above.

If the Principal is awarded the contract and, within the time and manner required by law after the prescribed forms are presented for signature, enters into a written contract in accordance with the bid, and files the bond with the Department of Transportation to guarantee faithful performance and payment for labor and materials, as required by law, or if the Department of Transportation shall reject all bids for the work described, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect. In the event of failure of the Principal to enter into the contract or give the specified bond, the Principal shall pay to the Department of Transportation **within 10 business days of demand** a total equal to the Proposal Guaranty as liquidated damages; the liability of the Surety continues for the full amount of the obligation as stated until the obligation is paid in full.

The Surety, for value received, agrees that the obligations of it and its bond shall not be impaired or affected by any extension of time within which the Department of Transportation may accept the bid; and the Surety does waive notice of any such extension.

IN WITNESS, the Principal and Surety have agreed and have signed by their proper officers and have caused their corporate seals to be affixed this date: **(DATE MUST BE ENTERED)**

PRINCIPAL

(Company Name) **(Affix Corporate Seal)**

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

On the above date, this instrument was acknowledged before me by the named person(s).

(Signature, Notary Public, State of Wisconsin)

(Print or Type Name, Notary Public, State of Wisconsin)

(Date Commission Expires)

Notary Seal

IMPORTANT: A certified copy of Power of Attorney of the signatory agent must be attached to the bid bond.

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

Time Period Valid (From/To)	
Name of Surety	
Name of Contractor	
Certificate Holder	Wisconsin Department of Transportation

This is to certify that an annual bid bond issued by the above-named Surety is currently on file with the Wisconsin Department of Transportation.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the annual bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing surety will give thirty (30) days written notice to the certificate holder indicated above.

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.
4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.
7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR-1273 - "Required Contract Provisions Federal Aid Construction Contracts," without

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

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

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

- (1) The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 5310-02-70, Spring Green – Madison, CTH KP to Westview Court, Village of Cross Plains, USH 14, Dane County and Project 5310-02-73, Spring Green – Madison, CTH KP to Westview Court, Village of Cross Plains, USH 14, Dane County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2015 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 (20140630)

2. Scope of Work.

The work under this contract shall consist of construction of Structure B-13-0799, removal of existing structure, pavement removal, clearing, grubbing, common excavation, borrow, select crushed material, dense graded base, storm sewer, sanitary sewer, water main, lighting concrete pavement, concrete curb and gutter, HMA pavement, traffic signals, retaining walls, permanent signing, pavement marking, and finishing, 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 time frame for construction of the project within the 2015 construction season for all work on USH 14 and for the resurfacing of Bourbon Road in 2016 to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

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

The completion of all USH 14 construction prior to suspension of operations in the fall of 2015 is based on an expedited work schedule and may require extraordinary forces and equipment. Work efforts will possibly require multiple or concurrent controlling operations to occur at the same time. This information is included to assist the contractor and its subcontractors and shall not be interpreted as a demonstration of specified means and methods. It is anticipated Stage 5 will begin shortly after Stage 1 with work occurring concurrently in multiple stages.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 14 traffic starting four hours before a home game for the University of Wisconsin Badgers football team, and concluding four hours after completion of the game. The engineer has authority to also apply work restrictions for other special events not listed here.

All work designated for the year 2015 shall be completed on USH 14 (through all phases of construction stages 1-5 given in the plans) prior to 12:01 AM November 1, 2015.

Replace standard spec 108.10.2.2(1) as follows:

- (1) The engineer will award a time extension for severe weather on calendar day and completion date contracts. Submit a request for severe weather days if the number of adverse weather days, as defined in standard spec 101.3, exceeds the anticipated number of adverse weather days tabulated below.

Total Anticipated Adverse Weather Days for Each Calendar Month^[2]

Jan ^[1]	31
Feb ^[1]	28
Mar ^{[1][3]}	31
April	5
May	4
June	4
July	3
Aug	3
Sept	4
Oct	5
Nov 1 through 15	2
Nov 16 through 30 ^[1]	15
Dec ^[1]	31

^[1] Includes an anticipated winter suspension from November 14, 2015 through March 31, 2016.

^[2] The number of days will be modified in the special provision for year-round and painting contracts.

^[3] In March 2015, anticipating de-watering for the project to start, adverse weather delays do not apply.

If the contractor fails to complete the contract work designated for the year 2015 (through all phases of construction stages 1-5 given in the plans) necessary to reopen USH 14 to traffic prior to 12:01 AM November 1, 2015, the department will assess the contractor \$2,000 in interim liquidated damages for each calendar day the roadway remains closed after 12:01 AM November 1, 2015. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

Place base aggregate dense and/or select crushed material over shallow pipes during construction to ensure that the pipes are not damaged prior to placing HMA pavement. Replace pipes that are damaged during construction due to inadequate cover at contractor expense.

Utilize the quantity Dust Control Surface Treatment to minimize a dust nuisance to the public resulting from construction or traffic on base aggregate.

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

Notify residents and businesses 48 hours in advance if their direct access will be closed. Notify the Village of Cross Plains 72 hours in advance of closing any street.

When allowable by the impact of construction, allow residential and commercial access on USH 14 between the hours of 7:00 PM and 7:00 AM each day. When allowable by the extents of construction, allow parking on USH 14 during the same timeframe. Coordinate the potential for access and parking with village officials during weekly meetings defined within article Coordination with Local Officials, Businesses and Property Owners. Access and parking should be accommodated when passenger vehicles can navigate the work zone safely.

Provide seven days of notice to the United States Postal Service postmaster, Fire and EMS Services, and the Middleton/Cross Plains School District prior to closing any side road or beginning a stage.

Repair potholes and other deficiencies in the existing pavement to accommodate temporary traffic operations. The bid item Asphaltic Surface Patching has been included in the contract for this work.

Removing Existing Pavement

To keep local access and pedestrian movements on the existing pavement of USH 14 between Market Street and CTH P as long as possible, the existing pavement shall be removed in the following sequence. The sanitary sewer construction was used as the controlling operation.

Remove the existing pavement between Market Street and East Street at the start of the project.

When the sanitary sewer main is complete to Spring Street the pavement may be removed to Hickory Street.

When the sanitary sewer main is complete to Maple Street the pavement may be removed to Mill Street.

When the sanitary sewer main is complete to Wilson Street the pavement may be removed to Caesar Street.

When the sanitary sewer main is complete to American Legion Drive the pavement may be removed to CTH P.

If by May 15, 2015, sanitary sewer operations have not progressed enough where the pavement has been removed from Valley Street to CTH P, the pavement may be removed in this area to facilitate bridge construction.

Restoring Local Access

To keep restrictions of local access and pedestrian movements in the construction corridor of USH 14 between Market Street and Valley Street to the shortest duration possible the following schedule shall be observed. The sanitary sewer construction was used as the controlling operation.

The USH 14 roadway must be completed through the following processes: sanitary sewer including laterals, water main including laterals, common excavation, storm sewer, geogrid placement, select crushed material and base aggregate dense 1-1/4 inch.

Work cannot take place beyond Mill Street until the conditions above are met in the area from Market Street to East Street.

Work cannot take place beyond Jovina Street until the conditions above are met in the area from East Street to Mill Street.

Construction operations may start on May 15, 2015 in the area between Valley Street and CTH P in order to facilitate bridge construction.

Migratory Birds

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

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

Fish Spawning

There shall be no instream disturbance of Black Earth Creek as a result of construction activity under or for this contract, prior to May 15, 2015 or after September 15, 2015 and prior to May 15, 2016 or after September 15, 2016; all boundary dates inclusive, in order to avoid adverse impacts upon the spawning of trout.

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

4. Aquatic Exotic Species Control.

Wisconsin Ch. NR 40 prohibits exotic invasive organisms, and the New Zealand Mud Snail (*Potamopyrgus antipodarium*), has been identified in Black Earth Creek. This organism poses adverse effects to waters of the state. Wisconsin State Statutes 30.07, "Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters", details the state law that requires the removal of aquatic plants and organisms from objects that are put into state waters. However, this invasive organism requires additional cleaning and disinfecting procedures to protect other waters of the state. Black Earth Creek is nationally known for great trout fishing.

The New Zealand Mud snail has the ability to reproduce quickly and mass in high densities impacting the food chain of native organisms including trout and can alter the physical characteristics of the streams themselves. Mudsnailed are able to withstand harsh conditions such as prolonged periods of desiccation, a variety of temperature regimes and have been observed surviving immersion in various sanitizing agents. Due to its small size (about the size of a grain of rice), the New Zealand mudsnail can easily hitchhike on a variety of recreational and commercial equipment that comes in contact with the water and riparian zone and it is able to survive out of the water for an extended period of time. Pathways of invasion include but are not limited to boots, waders and other fishing gear, watercraft, and construction equipment and materials. Anyone that comes into contact with the water or stream bank vegetation must be vigilant in checking their gear and ensuring that it is free of mud and any noticeable snails, otherwise they may be in violation of NR 40, and associated fines.

At construction sites that involve navigable water or wetlands, use the follow procedures to minimize the chance of spreading the exotic invasive species to other areas. Use these procedures for all equipment, materials, boots and clothing that come in contact with Black Earth Creek waters (including tributaries) or stream bank vegetation. Rock or spoils will not be allowed to leave the site, unless prior approval has been made by WDNR and WisDOT.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plants and organisms prior to being used in other waters of the state. Before and after using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Use the following inspection and removal procedures:

1. Prior to entering or transporting equipment to or from Black Earth Creek, steam clean (water temp ~212° F) machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain any area where water may be trapped;
3. Inspect machinery and scrape off any attached organisms and aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of the aquatic organism and plant materials in a garbage can prior to leaving the area or invested waters; and
4. Disinfect all clothing (boots, waders, gloves, life jackets) and all equipment and materials that come in contact with the water or stream bank vegetation with:
 - a. ~212° F water (steam clean), or
 - b. Construct disinfecting stations supplied with basins with 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. If possible this disinfectant should be used in conjunction with a hot water (>104° F), and rinsed after disinfection. Disposal of disinfection and rinse waters should not occur in waters of the state or areas that drain to waters of the state.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site. Debris, spoils and other waste material that may have come in contact with Black Earth Creek may contain mudsnails and cannot be transported to or utilized in any other waterway or wasted in any area that drains to another waterway. All erosion control devices or other materials that have come into contact with the water or banks of Black Earth Creek or its tributaries will need to be disinfected according to the procedures above if they could be utilized on another project site. Pumps and hoses used on the project site will need to be disinfected according to the procedures above before they are transported from the project site.

Water to be utilized for dust control or other construction purposes should not be withdrawn from Black Earth Creek for this project.

Perform the inspection and disinfection procedures outlined above without applying for additional compensation. The inspection and disinfection procedures are considered incidental to the work within the contract.

Tracking Pads

To minimize impacts to wetland soil and vegetation the use of Tracking Pads are required when applicable. All track pads that may have been exposed to water from Black Earth Creek or its tributaries must be steam cleaned or disinfected as indicated above.

5. Traffic.

A General

Perform this work in accordance to standard spec 643, the Manual on Uniform Traffic Control Devices (MUTCD) and as hereinafter provided.

Construct this project using staged construction. Keep USH 14 from the intersection with CTH P and east to the project limits open to one through lane of vehicular traffic in each direction throughout the project duration. USH 14 will be closed from the Market Street/CTH KP intersection to the CTH P intersection for the majority of the project duration. USH 14 traffic will use a detour utilizing CTH KP, Bourbon Road and CTH P to avoid the closure area. Conduct construction operations in a manner that will cause the least interference to traffic movements and business and residential access adjacent and within the construction areas.

Alternate route signing for Westbound USH 14 will use USH 14, USH 12, STH 78 and USH 14. Maintain alternate route signing for the project duration.

Alternate route signing for Eastbound USH 14 will use USH 14, STH 78, USH 12 and USH 14. Maintain alternate route signing for the project duration.

Notify the engineer 14 days prior to installing lane width restriction signs for a maximum width of 11-feet as detailed in the plans.

No operations shall take place until all traffic control devices for such work are in the proper location.

Place Traffic Control Signs PCMS two weeks prior to construction operations on USH 14 at either end of the construction limits to pre-warn motorists of upcoming construction activities as detailed in the plans.

Maintain access to the following driveways and sidewalk entrances at all times, staged construction and temporary driveways and sidewalk maybe needed to maintain access. The following locations need to have access maintained:

- Station 107+21 RT
- Station 107+73 RT
- Station 118+52 RT
- Station 126+16 LT
- Station 128+42 – 128+87 LT
- Station 133+20 – 134+26 LT
- Station 131+55 – 132+00 RT
- Station 151+14 LT
- Station 16+00 'P' LT

Maintain access to the driveways on existing pavement, temporary pavement, or base aggregate dense. Maintain a minimum travel width of 20-feet for temporary access.

Upon switching USH 14 traffic to temporary pavement, designate a representative to monitor the condition of the temporary pavement for a period of not less than 8 hours after the switch and prior to beginning any work that may take place upon the existing roadway after completion of the traffic switch. Should the temporary pavement show signs of failure, the contractor's representative shall immediately notify the engineer and the department and work shall not begin on USH 14 until the contractor has the department's approval.

Temporary halting of traffic on the side roads will require a flag person, associated advanced signing and be in accordance to the Plans.

Perform construction operations on USH 14 according to the stages provided in the plans and as described in these special provisions:

B Staging

Pursue all staging operations in a timely and diligent manner, continuing all construction operations methodically from removal operations through the subsequent grading, paving and replacing sidewalk to minimize the duration of construction and loss of access to residents and businesses.

Limit the duration of construction in each block of the community and during each stage of construction. Through coordination with the engineer, identify when access must be removed to each block of the community and when access can be reestablished.

Stage 1

During Stage 1, USH 14 traffic will be detoured as shown in the plans. Construct USH 14 from Market Street to East Street. Construct in the direction of west to east so that the roadway can be completed as underground utilities such as sanitary sewer, water main, storm sewer, light and signal conduit are placed, grading has been completed and placement of geogrid reinforcement, select crushed material and base aggregate dense has been placed to facilitate access to businesses and residents.

Stage 2

During Stage 2, USH 14 traffic will be detoured as shown in the plans. Construct USH 14 from East Street to Mill Street. Construct in the direction of west to east so that the roadway can be completed as underground utilities such as sanitary sewer, water main, storm sewer, light and signal conduit are placed, grading has been completed and placement of geogrid reinforcement, select crushed material and base aggregate dense has been placed to facilitate access to businesses and residents.

Stage 3

During Stage 3, USH 14 traffic will be detoured as shown in the plans. Construct USH 14 from Jovina Street to the west edge of the CTH P intersection. Construct the Brewery Creek Bridge (B-13-0799). Construct in the direction of west to east so that the roadway can be completed as underground utilities such as sanitary sewer, water main, storm sewer, light and signal conduit are placed, grading has been completed and placement of geogrid reinforcement, select crushed material and base aggregate dense has been placed to facilitate access to businesses and residents.

Stage 4

During Stage 4, USH 14 traffic will be detoured as shown in the plans. Construct USH 14 from Mill Street to Jovina Street. Construct in the direction of west to east so that the roadway can be completed as underground utilities such as sanitary sewer, water main, storm sewer, light and signal conduit are placed, grading has been completed and placement of geogrid reinforcement, select crushed material and base aggregate dense has been placed to facilitate access to businesses and residents.

Stage 5 [CTH P Intersection – Eastern Project Limits]

Phase 1

During Phase 1, USH 14 traffic will be using the existing lane configuration from the CTH P intersection to the eastern project limits as shown in the plans. A shoulder closure will take place from approximately Station 154+50 – 172+75 along the eastbound lane. Construct temporary widening of the roadway in this area.

Phase 1A

During Phase 1A, USH 14 traffic will be using the existing roadway and the newly constructed temporary widening as shown in the plans. A lane shift will take place between Station 156+00 – 157+00 to facilitate construction. The Brewery Road intersection with USH 14 will be closed and local traffic will have to find alternate routes. Construct the USH 14 eastbound lanes from Station 149+00 – 156+00 and the USH 14 westbound lanes from Station 157+00 – 172+75. Place only the binder lifts of HMA pavement.

Phase 2

During Phase 2, USH traffic will be using newly constructed eastbound and westbound lanes in Phase 1A with a traffic shift taking place between Station 157+00 – 158+50. CTH P traffic will be detoured. Construct the new westbound lanes from Station 146+00 – 157+00 and the eastbound lanes from 159+00 – 172+75. Place only the binder lifts of

HMA pavement. Also construct CTH P from Station 15+50 – 17+50 ‘P’. CTH P will be detoured via Brewery Road as shown in the plan. Glaciers Edge Square Road will be closed at the intersection of USH 14, local traffic to use other access points.

Phase 2A (1) and (2)

During Phase 2A connect through construction the portion of the EB lanes in the CTH P/USH 14 intersection that has not been completed. Place the polymer overlay on the Black Earth Creek structure. USH 14 traffic is to use the new roadway and CTH P traffic is detoured via Bourbon Road, CTH KP and USH 14 as shown in the plans. Construct any remaining tie in work from Station 155+50 – Station 159+00 that could not be completed in the earlier stages.

Phase 2B

During Phase 2B place all surface HMA pavement from Station 149+00 – 172+00 both eastbound and westbound. Also, place permanent pavement markings from Station 149+00 – 172+00 eastbound and westbound. USH 14 traffic will be flagged during HMA surface paving and the placement of the permanent pavement markings.

Surfacing shall be completed in accordance to the standard detail drawing “Traffic Control for Lane Closure (Suitable for Moving Operations).”

Stage 6 (April – May 27, 2016)

During Stage 6 mill, re-surface and place permanent pavement markings on Bourbon Road. Bourbon Road will remain open to traffic. Flagging operations will be used to complete the work and allow access.

Milling and surfacing shall be completed accordance to the standard detail drawing “Traffic Control for Lane Closure (Suitable for Moving Operations).”

C Intersection Closure

Maintain access at intersections as shown in the staging plans. Closure of local road intersections is permitted within the detoured section of USH 14 to facilitate construction of mainline improvements.

Maintain cross traffic access to Lagoon Street at Wilson Street or Jovina Street at all times, only one location may be closed at once. Maintain access at CTH P, Glaciers Edge Plaza, Brewery Road, and Westview Court as shown in the plans.

D Pedestrian Access

The project is located within commercial and residential districts in the village of Cross Plains. It is essential to maintain available pedestrian facilities along USH 14 throughout the village. Provide pedestrian detours and alternative routes as provided in the plans. Modifications of the pedestrian routes may be needed depending on contractor operations and activities.

Maintain existing sidewalk to the extent possible except as directed by the engineer. In areas of existing sidewalk which are under construction, provide a temporary surface for pedestrian access at all times. The temporary surface shall meet requirements of the Americans with Disabilities Act Accessibilities Guidelines (ADAAG) and shall consist of temporary asphaltic surface, any grade of concrete, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable. Maintaining sidewalk is considered incidental to the contract. Maintain ADAAG accessible pedestrian walkways free of mud, sand, and construction equipment or debris. Maintain sidewalk access to all businesses and residences at all times. Coordinate with residents and business prior to removing or closing sidewalks.

Maintain existing pedestrian movements crossing the construction zone at all intersections at all times as hereby noted. Construct pedestrian crossings of intersections meeting requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and consisting of temporary asphaltic surface. Gravel or base course material is not acceptable. Maintain ADAAG accessible pedestrian crossings that are free from equipment or mud, sand, and construction debris. The Temporary Crosswalk Access bid item is payment for maintaining crosswalks through the construction zone where existing crosswalks exist. Any closures of sidewalk must be approved by the engineer. At locations where crosswalks crossing exist on both sides of the intersection, closure of one of the two crosswalks is permitted as long as all other crossings are completely open. At intersections where only one crosswalk exists, crossing work shall be staged to maintain crosswalk at all times.

6. Advanced Notice for Lane Closure System.

Provide the engineer with a schedule of requested width restrictions for the following week a minimum of one week in advance and by noon on Thursday of the previous week. In addition, provide the following minimum advanced notification to the engineer for incorporation into the Wisconsin Lane Closure (LCS). The LCS is linked to the 511 System and the WisDOT web site.

Shoulder closures	2 calendar days
Detouring	14 calendar days
Lane closures	7 calendar days
Construction stage changes	7 calendar days
Intersection closures	14 calendar days

Notify the engineer and WisDOT Statewide Traffic Operations Center at (414) 227-2142 if there are any changes in the schedule, early completions, or cancelations of scheduled work.

The department has the authority to disallow any requested closures or width restrictions.

7. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 14 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, April 3, 2015 to 7:00 AM Monday, April 6, 2015 for Good Friday and Easter;
- From noon Friday, May 22, 2015 to 7:00 AM Tuesday, May 26, 2015 for Memorial Day;
- From noon Friday, July 3, 2015 to 7:00 AM Monday, July 6, 2015 for Independence Day;
- From noon Friday, September 4, 2015 to 7:00 AM Tuesday, September 8, 2015 for Labor Day;
- From noon Wednesday, November, 25, 2015 to 7:00 AM Monday, November 30, 2015 for Thanksgiving and deer hunting;
- From noon Friday, March 25, 2016 to 7:00 AM Monday, March 28, 2016 for Good Friday and Easter;
- From noon Friday, May 27, 2016 to 7:00 AM Tuesday, May 31, 2016 for Memorial Day.

107-005 (20050502)

8. Utilities.

This contract comes under the provision of Administrative Rule Trans 220. On this project Administrative Rule TRANS 220 utility coordination process was followed.

107-065 (20080501)

There are underground and overhead utility facilities located within the project limits. The contractor shall coordinate his construction activities with a call to Diggers Hotline and/or a direct call to the utilities that have facilities in the area as required per statutes. The contractor shall use caution to ensure the integrity of the underground facilities and shall maintain code clearances from overhead facilities at all times.

Madison Gas & Electric – Gas

Madison Gas & Electric has a gas line located within the project limits. Work is anticipated to begin in the fall of 2014 and anticipated to take 50 working days to complete. Work will be completed prior to construction.

Madison Gas & Electric will replace existing gas facilities entirely. Installation will be primarily along the north side of USH 14 from the west project limits to the east project limits. The gas line would be under the sidewalk on the north side of the right-of-way approximately three feet off the right-away-line. From Station 105+00 to Station 107+30, a second line will be located on the south side of USH 14.

Contact for MG&E Gas – Steve Beversdorf; 133 S. Blair St. Madison, WI, 53788; Cell (608) 444-9620; E-mail SBeversdorf@mge.com.

Madison Gas & Electric – Electric

Madison Gas & Electric has over head and underground electric facilities located within the project limits. Work is anticipated to begin in the fall of 2014 and will take approximately 60 working days to complete. Work will be completed prior to construction.

Madison Gas & Electric will be removing the poles and overhead wire from Market Street to the west side of Brewery Creek. At Brewery Creek a temporary overhead line will be built south of USH 14 to accommodate construction of the new bridge. There is an underground electric cable at approximately Station 137+20 that crosses USH 14 that will be abandoned. Underground facilities will be installed on the south side of USH 14 from Station 104+75 to Station 130+75; on the north side of USH 14 from Station 118+25 to Station 121+25; on the north side of USH 14 from Station 124+50 to Station 126+50 where it crosses under USH 14 to the south. Work north of USH 14 at CTH P will be completed in 2014, prior to construction. There will be a transformer set on village right-of-way with pull boxes in the sidewalk, and conduit running under the sidewalk.

Contact for MG&E Electric – Rich Parker; 133 S. Blair St., Madison, WI, 53788; Cell (608) 444-9619; E-mail RParker@mge.com.

Charter Communications

Charter communications has overhead coaxial cable and fiber attached to MG&E poles along the south side of USH 14 from CTH KP to Mill Street. Relocation of fiber and coaxial cable will be done in conjunction with the relocation of MG&E electric poles. For more information refer to “Madison Gas & Electric – Electric” portion of the specials. Work is anticipated to begin August, 2014 and will take approximately 120 working days to complete. Work will be completed prior to construction.

Aerial coaxial cable will be moved to underground with MG&E Electric in a joint trench starting at CTH KP along the south right-of-way continuing to Mill Street. Aerial coaxial cable crossing at Mill Street will be relocated. Aerial coaxial cable at Caesar Street will be relocated.

Contact for Charter Communication is Randy Lettman; 2701 Daniels St., Madison, WI, 53718; Cell (608) 575-6415; E-mail randall.lettman@charter.com.

TDS Telecom

TDS has both aerial and underground facilities located within the project limits. Work is anticipated to take approximately 90 working days to complete and anticipated to start September 2014, and will be completed before May 30, 2015. Some coordination may entail the lowering of the facilities in place during construction.

Beginning at the west end, Station 104+50 to 127+00, TDS will place new buried facilities in the south right-of-way area jointly with others, currently MG&E and Charter. Station 104+50 to 127+00, TDS will remove aerial facilities.

Station 127+00 to 132+75 TDS aerial facilities will be removed, to be replaced with the Lagoon Street construction project in 2014. At Station 137+00 TDS will cross USH 14 with an aerial cable on existing MG&E poles.

Station 140+00 (Jovina Street) to Station 147+25, TDS will abandon an existing manhole conduit duct package, this duct package also hangs under the existing bridge at Station 144+00. TDS will retain in place a manhole (MH5) at Station 147+25, left within CTH P.

TDS has placed new facilities from MH5 to the northwest area on the north right-of-way to Station 145+75. This new facility serves an existing aerial crossing on MG&E poles at Station 146+00.

From MH5 northeasterly along CTH P, TDS will retain the existing duct package consisting of 6-4" concrete encased conduits and 2 direct buried 600 pair copper cables extending along CTH P beyond the limits of this project.

From MH5, 147+25 Easterly along USH 14 right-of-way, TDS will abandon a buried cable to Station 164+00.

At Station 150+65, TDS will place by directional drilling, a new conduit across USH 14 from right-of-way to right-of-way. Facilities will be built beyond the limits of USH 14.

At Station 160+90 TDS, will place by directional drilling, new conduit across USH 14 from right-of-way to right-of-way, and parallel along the new south right-of-way line easterly to Station 161+50.

At Station 161+50 and easterly, TDS will attach to existing MG&E poles and extend to beyond the easterly limits of the project.

At Station 167+00 TDS will cross the right-of-way with directional drilling and placement of conduit.

TDS will place new facilities on the north right-of-way from Westview Court east to Station 167+00. TDS will place new facilities on the south right-of-way from Station 167+00 easterly to Station 167+50.

At Station 147+25, MH5 shall remain along with the cable and conduit package going north along CTH P to the northeast. Coordination may entail the lowering of the facilities in place during construction.

Contact for TDS is Jerry Myers; 525 Junction Rd., Madison, WI, 53717; Cell (608) 279-7104; E-mail jerry.myers@tdstelecom.com.

Galactic Wind

Galactic Wind will be installing underground conduit within the project limits. Work will take place during construction and is anticipated to take approximately 4 working days to complete.

Galactic Wind, LLC, will be installing (1) 12w HDPE conduit and (2) 4" Schedule 40 PVC conduits across USH 14. The conduits crossing USH 14 will be a continuation of conduits previously installed from the south side of Black Earth Creek (west side of CTH P) north to a 12'x6'x7' pre-cast concrete manhole installed at the same time as the prior installed conduits. The new conduits crossing USH 14 will begin at the previously installed concrete manhole and extend to the north side of USH 14 on the west side of CTH P.

The work related to conduit installation must be coordinated with other utility work taking place within the USH 14 roadway alignment. Conduit crosses the highway at an acute angle and at a minimum depth of 48" to the top of the conduit. Interference with other utilities is anticipated to be minimal.

Contact for Galactic Wind is Ed Englert; The Morse Group, 1390 Gateway Blvd., Beloit, WI 53511; Cell (815) 378-6125; E-mail eenglert@themorsegroup.com.

Village of Cross Plains (Water) has underground facilities located within the project limits. Relocation of the underground facilities will be accomplished as part of contract 5310-02-73.

Coordinate operations with the Village of Cross Plains. Contact Jerry Gray; (608) 798-3241 Ext. 109 or cell (608) 235-1054; E-Mail jerry@cross-plains.wi.us.

Village of Cross Plains (Sanitary Sewer) has underground facilities located within the project limits. Relocation of the underground facilities will be accomplished as part of contract 5310-02-73.

Coordinate operations with the Village of Cross Plains. Contact Jerry Gray; (608) 798-3241 Ext. 109 or cell (608) 235-1054; E-Mail jerry@cross-plains.wi.us.

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

The Village of Cross Plains personnel will inspect construction of sanitary sewer and water main under this contract. Construction testing and final acceptance of the sanitary sewer and water main construction will be by the Village of Cross Plains. Construction staking of sanitary sewer and water main will be by the Village of Cross Plains.

10. Referenced Construction Specifications.

Construct the work enumerated below conforming to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015. If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

Conform to the referenced construction specifications for the following:

- Sanitary sewer construction
- Water main construction
- Dewatering

Village of Cross Plains Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015 can be accessed at:

http://www.cross-plains.wi.us/index.asp?SEC=%7b0A312C03-BF83-45AC-9485-6A93052987EE%7d&Type=B_BASIC&persistdesign=none
105-002 (20130615)

11. Notice to Contractor – Bidding Requirements.

The Village of Cross Plains is seeking funding assistance from the State of Wisconsin through the Clean Water Fund and the Safe Drinking Water Fund. There are special bidding requirements associated with the funding. See the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015 for additional information.

The municipality is seeking funds from the Environmental Improvement Fund (EIF). The rules under chapters NR 162 and NR 166 of the Wisconsin Administrative Code will apply to the project.

12. Notice to Contractor – WisDOT Project ID 5310-00-78.

The Wisconsin Department of Transportation has plans to reconstruct the intersection of USH 14 and Stagecoach Road east of Cross Plains during the 2015 construction season. Construction operations are expected to be completed concurrently with work under this contract, and includes shoulder closures and lane shifts. Coordinate work activities and traffic control with the project contractor of ID 5310-00-78. The design contact for ID 5310-00-78 is Suzan Nast, PE, WisDOT Design Project Manager; (608) 242-8051; suzan.nast@dot.wi.gov.

13. Railroad Insurance and Coordination.

A Description

Comply with standard spec 107.17 for all work affecting Wisconsin and Southern Railroad Company property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Wisconsin and Southern Railroad Company.

Notify evidence of the required coverage, and duration to Ms. Jamie Wilson at (620) 231-2230; 315 W 3rd Street, Pittsburg, KS, 66762. Include the following information on the insurance document:

Project: 5310-02-70
Route Name: USH 14, Dane County
Crossing ID: #391 766J
Railroad Subdivision: Prairie
Railroad Milepost: 0152.72

A.2 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions and will be accomplished without cost to the contractor.

The railroad crossing surface at CTH P will be reconstructed with precast planks prior to construction under this contract. In addition, railroad signal upgrades will also be constructed at both CTH P and Bourbon Road.

A.3 Names and addresses of Railroad Representatives for Consultation and Coordination

Contact Roger Schaalma, Superintendent of Maintenance of Way, Wisconsin and Southern Railroad Co., 1890 East Johnson Street, Madison, WI 53704; TELEPHONE (414) 438-8820; Ext. 4201; FAX (608) 243-9225; email rschaalma@watecocompanies.com for consultation on railroad requirements during construction.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

A.4 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 several weeks prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

A.5 Train Operation

Approximately 0 passenger trains and 4-5 through freight trains operate daily through the construction site. Through freight trains operate at up to 25 mph.

A.6 Rail Security Awareness and Contractor Orientation

Prior to entry on railroad right-of-way, the contractor shall arrange for on-line security awareness and contractor orientation training and testing, and be registered through

“e-RAILSAFE” for all contractor and subcontractor employees working on railroad right-of-way. See e-railsafe.com “Information”. The security awareness and contractor orientation training is shown under the railroad’s name. The department has secured right of entry to railroad property; neither the contractor nor subcontractors or their employees will be required to sign a right-of-entry form. The security awareness and contractor orientation certification is valid for one year and must be renewed for projects that will carry over beyond the one year period. Contractor and subcontractor employees shall wear the identification badge issued by e-RAILSAFE when on railroad right-of-way. Costs associated with training and registration are incidental to other items in the contract.

14. Hauling Restrictions.

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

Hauling shall not be permitted on Market Street, Water Street, Center Street, Spring Street, East Street, Maple Street, Hickory Street, Wilson Street, Mills Street, American Legion Drive, Caesar Street, Jovina Street, Valley Street, Eulalia Street, Park Street, Julius Street, American Legion Drive, Glacier’s Edge Square, and Lagoon Street (renamed Mill Creek Parkway). Hauling is defined as loaded and unloaded trucks.

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

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Mathew Dapp at (608) 246-5353.
107-054 (20080901)

16. Environmental Protection.

Supplement standard spec 107.20 with the following:

Pursue operations in a timely and diligent manner, continuing all construction operations methodically from the initial topsoil stripping operation through the subsequent grading, re-topsoiling, and installation of erosion control devices in order to minimize the period of exposure to possible erosion.

Stockpile spoil material on upland sites an adequate distance from the stream and any open water created by excavation. Install filter fabric silt fence between spoil material and the stream and between the entire disturbed area and the waterway.

WDNR mandates that appropriate erosion control measures be applied to borrow and waste areas during and following construction. Following completion of the project, restore borrow and waste areas and properly seed, mulch and protect them from the effects of erosion.

When engaged in roadway cleaning operations, the contractor shall use equipment having vacuum or water spray mechanisms to eliminate the dispersion of particulate matter into the atmosphere. If vacuum equipment is employed, it must have a suitable self-contained particulate collector to prevent discharge from the collector bin into the atmosphere.

Remove all temporary erosion control measures after disturbed areas are stabilized or at the direction of the engineer.

Existing waterways and sensitive areas shall be protected. Do not disturb or store any equipment or materials in these areas without prior approval from the engineer. Store materials upland and away from the waterway. Do not wash out equipment in drainage ways or direct conduits to waters of the state. Keep slurry out of drainage ways.

Provide the Erosion Control Implementation Plan (ECIP) 14 days prior to the pre-construction conference. The contractor shall prepare and submit an ECIP for the project, including borrow sites and material disposal sites, in accordance to Wis. Adm. Code 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 107.18 as follows:

If dewatering is required for any reason, the water must be pumped into a properly sized and constructed settling basin before the clean/filtered water is allowed to enter any waterway or storm sewer. The “clean/filtered” water must be free of suspended solids and contaminants. A properly designed and constructed settling basin will take into consideration the amount of space for construction, desired pumping speed, number/size of pump(s) likely to be used, and the sedimentation rate of soils to be encountered. Use the Wisconsin Department of Natural Resources Technical Standard on Dewatering (standard number 1061) as found on their website at <http://www.dnr.wi.gov/runoff/stormwater/techstds.htm> for the appropriate best management practice and proper application and sizing of such practice. As part of the Erosion Control Implementation Plan (ECIP) submittal, supply all pertinent information and calculations used to determine the management practice for dewatering at each location it is required. Prior to construction, obtain approval from the engineer for the proposed method of treatment including supporting calculations.

17. Erosion Control Structures.

Within seven calendar days after the commencement of work on the bridge superstructure, place all permanent erosion control devices, including riprap, erosion mat, ditch checks, seed, fertilizer, mulch, soil stabilizer, or any other item required by the contract or deemed necessary by the engineer. These devices shall be in place in the area under the bridge and on both sides of the roadway, from the waterway to a point 100-feet behind the backwall of the abutment. Within said limits, place these devices to a height equivalent to the calculated water elevation resulting from a storm that occurs on the average of once every two years (Q2) as shown on the plan, or as directed by the engineer. Prior to initial construction operations, place turbidity barriers, silt screens, and other temporary erosion control measures as shown on the plans, and remove them after the permanent erosion control devices are in place unless directed otherwise by the engineer.

In the event that construction activity does not disturb the existing ground below the Q2 elevation, the above timing requirements for permanent erosion control shall be waived.
107-070 (20030820)

18. Notice to Contractor, Notification of Demolition and/or Renovation No Asbestos Found.

John Roelke, License Number AII-119523, inspected the USH 14 structure over Brewery Creek for asbestos on December 22, 2011. No regulated Asbestos Containing Material (RACM) was found on this structure. A copy of the inspection report is available from: Matthew Dapp, (608) 246-5353.

In accordance to NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 4/11), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days prior to beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form to Matthew Dapp, (608) 246-5353 and DOT BTS-ESS attn: Hazardous Materials Specialist PO Box 7965, Madison, WI, 53707-7965. In addition, comply with all local or municipal asbestos requirements.

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

- Site Name: Structure (no number), USH 14 over Brewery Creek
- Site Address: 0.05M W JCT USH 14 / CTH P
- Ownership Information: WisDOT Transportation Southwest Region, 2101 Wright Street, Madison, WI, 53704
- Contact: Matthew Dapp, PE
- Phone: (608) 246-5353
- Age: 84 years old. This structure was constructed in 1930.
- Area: 1,120 SF of deck

Insert the following paragraph in Section 6.g.:

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

107-125 (20120615)

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

Supplement standard spec 107.1(2) with the following:

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. Prior to the start of remediation work, submit to the engineer a site specific Health and Safety Plan, and written verification that workers will have completed up-to-date OSHA training.

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

107-115 (20050502)

20. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

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

107-001 (20060512)

21. Coordination with Local Officials, Businesses and Property Owners.

The contractor shall arrange and conduct a weekly meeting between the department, engineer, field representatives and contractors, Village of Cross Plains Representatives, Village of Cross Plains Chamber of Commerce and local school officials to discuss the project schedule and progress for the upcoming and past weeks including vehicular and pedestrian access during construction operations. Invite utility companies as appropriate. The first meeting shall be held prior to the start of work under this contract and weekly

meetings held thereafter unless the department determines that the schedule can be changed.

22. Clearing and Grubbing.

Amend standard spec 201.2 as follows:

Dane County is a Gypsy Moth quarantined area. It is illegal to move or transport any wood product or outdoor household articles that have been exposed to the gypsy moth from a quarantined area to a non- quarantined area without inspection or certification, Wis. ATCP statute 21.10.

The contractor is prohibited from open burning of weeds, brush, logs, limbs, stumps, roots, lumber and debris from clearing and grubbing or from demolition.

Stumps, roots, brush, waste logs and limbs, timber tops and debris resulting from clearing and grubbing or occurring within the clearing and grubbing limits shall be disposed of by chipping or removing from the highway right-of-way.

23. Removing Pavement.

The work under this item shall be in accordance to the requirements of standard spec 204, as shown on the plans, and as hereinafter provided.

All removed pavement shall be considered unusable material, and shall become the property of the contractor and shall be disposed of by the contractor in an environmentally acceptable manner. The cost to dispose of all excess materials, including steel reinforcement, shall be included in the item of Removing Pavement.

24. Historic Stacked Stone Wall.

Located between USH 14 Station 131+55 and 132+00 on the left is a stacked stone wall which is adjacent to a historic property. The contractor shall take measures to support/brace the wall during construction activities as not to disturb its integrity. If damage occurs, the contractor and the engineer shall come up with a repair/modification plan and implement it. All repair/modification and bracing/support costs are incidental to the contract.

25. Removing Buildings.

Scope of Work

Perform this work in accordance with standard spec 204. Raze and remove the buildings and backfill the resulting exposed openings at the following locations:

- 2404 Main Street Cross Plains, WI
- 2532 Main Street Cross Plains, WI

Remove the structures by May 22, 2015.

Perform the following:

- Remove the structures from the premises.
- Remove and dispose of all hazardous materials in compliance to current local, state, and federal guidelines and laws. The most recent edition of any applicable standard, code, or regulation shall be in effect. Where conflict among the requirements of these specifications occurs, follow the most stringent.
- Arrange for the public and/or private utility companies to disconnect their services and remove meters. Make arrangements with the local plumbing inspectors to inspect the abandonment of well and septic systems and/or sewer and water laterals. In accordance to state laws and administrative rules, licensed well driller and pump installer contractors shall accomplish all water well abandonment.
- Conduct all demolition, removal, and backfilling operations in such a manner that all conflicts with vehicular traffic on adjacent streets and highways are avoided. Use barricades or fencing, or both, when needed to guarantee the safety of pedestrians or motorists.
- Upon completion of the backfilling operations of the exposed basements and other openings, fine-grade and shape the area.

Traffic

Maintain pedestrian and vehicular traffic on the roads and highways adjacent to these premises as provide elsewhere in this contract.

Legal Relations and Responsibility to the Public

Supplement standard spec 107.3 with the following:

Procure all permits necessary to carry out the work, including those necessary while the roads and highways are obstructed either by operations or by the storage of equipment or materials.

The awarding of this contract does not guarantee the issuance of a permit to move any structures over state highways.

The contractor agrees not to move any of the structures within a proposed highway corridor of the State of Wisconsin.

Supplement standard spec 107.8 with the following:

Notify the local law enforcement agency, fire department, and any surface transportation company that may be affected by the anticipated street obstructions or hazards.

Supplement standard spec 107.22 with the following:

Notify the various public or municipal utility companies to disconnect and remove such of their facilities as may be in the buildings, or attached to them, sufficiently in advance of beginning razing operations to allow the utilities to make their disconnections.

Asbestos Removal

The department has investigated all buildings to be removed for the presence of asbestos. Any friable asbestos found will be removed by others prior to the start of construction. If any additional friable asbestos is found by the contractor during building removal, cease building removal and contact the engineer to arrange for friable asbestos removal by others.

Contact the SW Region Madison Environmental Coordinator (currently Brian Taylor, (608) 245-2630) to obtain a copy of the pre-demolition asbestos inspection reports.

Notice to Department of Natural Resources

Notify the Southwest Regional Office of the Department of Natural Resources (DNR) located at 3911 Fish Hatchery Road, Madison, WI, 53711 at least ten working days in advance of the contractor's intent to raze or otherwise remove each parcel. In the notice to DNR, include the address and type of building(s) to be razed or removed, the proposed date that each will be razed or removed, and the name of the licensed or approved landfill where the demolition waste will be disposed. Provide a copy of this notification within ten days of DNR notification, to the engineer.

Disposal of Materials

Supplement standard spec 104.8 with the following:

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

Custody of the Building

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

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

Razing Operations

This work shall be in accordance to standard spec 204 and as hereinafter provided.

Furnish all labor, equipment, tools, transportation, and incidentals necessary for the performance of the work.

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

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

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

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

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

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

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

Backfill

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

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

Fencing

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

26. Manhole Covers.

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, place a 6-foot straightedge over the centerline of each manhole frame parallel to the direction of traffic. Make a measurement at each side of the frame. Average the two measurements. If this average is greater than 5/8 inch, reset the manhole frame to the correct plane and elevation. If this average is 5/8 inch or less, but greater than 3/8 inch, the manhole frame shall be allowed to remain in place but will be paid for at 50 percent of the contract unit price.

If the manhole frame is higher than the adjacent pavement, make the two measurements at each end of the straightedge. Average these two measurements. The same criteria for acceptance and payment as above, will apply.

27. Removing Old Structure Over Waterway With Minimal Debris Station 144+22, Item 203.0600.S.01.

Conform to standard spec 203 as modified in this special provision.

Add the following to standard spec 203:

203.3.6 Removals Over Waterways and Wetlands

203.3.6.2 Removing Old Structure Over Waterway with Minimal Debris

- (1) Remove the existing structure over Brewery Creek in large sections and conforming to the contractor's approved structure removal and clean-up plan. During superstructure removal, prevent all large pieces and minimize the number of small pieces from entering the waterway or wetland. Remove all reinforcing steel, all concrete, and all other debris that falls into the waterway or wetland. The contractor may leave limited amounts of small concrete pieces scattered over the waterway floor or wetland only if the engineer allows.

- (2) Submit a structure removal and clean-up plan as part of the erosion control implementation plan required under standard spec 107.20. Do not start work under the structure removal and clean-up plan without the department's written approval of the plan. Include the following information in the structure removal and clean-up plan:
- Methods and schedule to remove the structure.
 - Methods to control potentially harmful environmental impacts.
 - Methods for superstructure removal that prevent all large pieces and minimize the number of small pieces from entering the waterway or wetlands.
 - Methods to control dust and contain slurry.
 - Methods for removing piers and abutments. If blasting in water, include restrictions that regulatory agencies and the contract require.
 - Methods for cleaning the waterway or wetlands.
- (3) If stockpiling spoil material, place it on an upland site an adequate distance from the waterway, wetland, or any open water created by excavation. Install silt fence between the spoil pile and the waterway, wetland, or excavation site.

Add the following Removing Old Structure bid item to standard spec 203.5.1:

ITEM NUMBER	DESCRIPTION	UNIT
203.0600.S.01	Removing Old Structure Over Waterway With Minimal Debris Station 144+22	LS
203-020 (20080902)		

28. Abandoning Sewer, Item 204.0291.S.

A Description

This special provision describes abandoning existing sewer by filling it with cellular concrete according to the pertinent requirements of standard spec 204 and standard spec 501, as shown in the plans, and as hereinafter provided.

B Materials

Provide cellular concrete meeting the following specifications: 1 part cement, 1 part fly ash, 8 parts sand, or an approved equal, and water. Provide cement meeting the requirements of standard spec 501.2.1 for Type 1 Portland Cement. Provide sand meeting the requirements of standard spec 501.2.5.3 Provide water meeting the requirements of standard spec 501.2.4.

C Construction

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

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

204-050 (20080902)

29. Removing Quarry Limestone Retaining Walls, Item 204.9090.S.01.**A Description**

This special provision describes removing limestone retaining walls according to the pertinent requirements of standard spec 204, as shown in the plans, and as hereinafter provided.

B (Vacant)**C (Vacant)****D Measurement**

The department will measure Removing Quarry Limestone Retaining Walls 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
204.9090.S.01	Removing Quarry Limestone Retaining Walls	LF

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

204-050 (20080902)

30. 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 facility is

Waste Management of Wisconsin Madison Prairie Landfill
6002 Nelson Rd.
Sun Prairie, WI 53590

Perform this work in accordance 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 Locations

The department completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following locations within the USH 14 project corridor:

- Station 106+00 to 107+50, from reference line to construction limits right, from 5 feet below ground surface to the maximum depth of excavation. The estimated volume of petroleum-contaminated soil to be excavated at this location is 35 cubic yards (estimated 60 tons).
- Station 106+00 to 108+75, from reference line to construction limits left, from 5 feet below ground surface to the maximum depth of excavation. The estimated volume of petroleum-contaminated soil to be excavated at this location is 1,300 cubic yards (estimated 2,200 tons).
- Station 110+00 to 110+50, from reference line to construction limits right, from 8 feet below ground surface to the maximum depth of excavation. The estimated volume of petroleum-contaminated soil to be excavated at this location is 50 cubic yards (estimated 90 tons).
- Station 132+25 to 133+00, from reference line to construction limits right, from 13 feet below ground surface to the maximum depth of excavation. The estimated volume of petroleum-contaminated soil to be excavated at this location is 80 cubic yards (estimated 140 tons).
- Station 144+50 to 145+50, from 25 feet left of reference line to construction limits right, from 5 feet below ground surface to the maximum depth of excavation. The estimated volume of petroleum-contaminated soil to be excavated at this location is 30 cubic yards (estimated 50 tons).
- Station 147+00 to 148+75, from 30 feet left of reference line to construction limits right, from 5 feet below ground surface to the maximum depth of excavation. The estimated volume of petroleum-contaminated soil to be excavated at this location is 180 cubic yards (estimated 300 tons).
- Station 150+00 to 151+25, from 35 feet left of reference line to construction limits right, from 2 feet below ground surface to the maximum depth of excavation. The estimated volume of petroleum-contaminated soil to be excavated at this location is 570 cubic yards (estimated 970 tons).

Additionally, results indicate that lead-contaminated soil exists within the project limits at the following location:

- Station 146+75 to 147+75, from 50 to 100 feet left of the reference line, from the ground surface to the maximum depth of excavation. The estimated volume of lead-contaminated soil to be excavated at this location is 45 cubic yards (estimated 75 tons).

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

Active groundwater monitoring wells are expected to be located within the project limits. If active groundwater monitoring wells are encountered during construction, notify the engineer and protect the wells to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. Adjust monitoring wells that need to be maintained and do not conflict with structures or curb and gutter to be flush with the final grade. Coordinate with the environmental consultant the abandonment or adjustment of wells that conflict with the previously mentioned items and wells that are not required to be maintained.

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated material. 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.

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: TRC Environmental Corp., Mr. Dan Haak or Mr. Mark Walter
Address: 708 Heartland Trail, Suite 3000, Madison, WI 53717
Phone: (608) 826-3600
Fax: (608) 826-3941
E-mail: dhaak@trcsolutions.com, mwalter@trcsolutions.com

A.3 Coordination

Coordinate work under this contract with the environment consultant:

Name: TRC Environmental Corp.
Address: 708 Heartland Trail, Suite 3000 Madison, WI 53717
Contact: Mr. Dan Haak or Mr. Mark Walter
Phone: (608) 826-3600
Fax: (608) 826-3941
E-mail: dhaak@trcsolutions.com, mwalter@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

Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter soil contaminated with petroleum and lead. 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 petroleum- and lead-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.

Disposal of contaminated soil at the biopile and landfill facility is subject to the facility's safety policies, which include as a minimum:

- No smoking is allowed on-site.
- Maximum speed limit of 15 mph on access roads and 5 mph while in active area.
- All persons entering the active area must wear the following personal protective equipment: hard hats, high visibility clothing, steel toed work boots, safety glasses, and seat belts.
- Minimum requirement for spacing is as follows:
 - a. A minimum 15 foot Safety Zone is required between landfill equipment and all personnel at all times.
 - b. Do not back up directly behind the compactor or dozer.
 - c. Trucks must yield the right-of-way to landfill equipment.
 - d. 15 feet required between trucks.
- Only the driver can exit the truck and must stay within 4 feet of the truck. Use of Spotter is prohibited. Helper (if any), must remain in vehicle while unloading.
- Tailgates of all vehicles may only be opened while in the active area and must be closed prior to exiting the active area.
- Cleaning out vehicles must be done in designated area, not in the active area. Vehicles must be properly locked out / tagged out in accordance to OSHA during the clean out process.
- No Scavenging is allowed.
- Horseplay is prohibited.

Violation of the landfill's safety policy will result a verbal or written warning explaining this policy and may result in the loss of dumping privileges.

Immediately report all accidents and injuries at the landfill facility to landfill management.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

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. 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 15 cubic yards excavated.

On the basis of the results of such field-screening, the material will be designated as follows:

- Excavation Common consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or
- Low-level petroleum- and/or low-level lead-contaminated soil for reuse as fill within the construction limits, or
- Petroleum-contaminated soil for bioremediation at the WDNR-licensed bioremediation and landfill facility, or
- Lead-contaminated soil for disposal at the WDNR-licensed bioremediation and landfill facility, or
- Potentially contaminated material for temporary stockpiling and additional characterization prior to disposal

Some material may require additional characterization prior to disposal. Provide for the temporary stockpiling of up to 100 cubic yards of contaminated material on-site that require additional characterization. Construct and maintain a temporary stockpile of the material in accordance to NR 718.05(3), including, but not limited to, placement of the contaminated soil on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. The department's environmental consultant will collect representative samples of the stockpiled material, laboratory-analyze the samples, and advise the contractor, within 10 business days of the construction of the stockpile, of disposal requirements. The stockpiled material shall be disposed either at the WDNR-licensed bioremediation and landfill facility by the contractor or, if characterized as hazardous waste, by others. As an alternative to temporarily stockpiling contaminated material that requires additional characterization, the contractor has the option of suspending excavation in those areas where such material is encountered until such time as characterization is completed.

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

It is likely that dewatering will be required during construction of utilities. Based on laboratory results of groundwater samples collected from monitoring wells, water generated during dewatering operations should be permitted to discharge to the surface, except in the following areas which may contain petroleum contamination above surface water discharge limits:

- Station 106+00 to 107+50, from reference line to construction limits right.
- Station 106+00 to 108+75, from reference line to construction limits left.
- Station 137+25 to 138+50, from reference line to construction limits left.
- Station 147+00 to 148+75, from 30 feet left of reference line to construction limits right.
- Station 150+00 to 151+25, from 35 feet left of reference line to construction limits right.

If evidence of groundwater contamination is observed (i.e., petroleum odor or sheens) during dewatering operations at other locations, dewatering operations will be suspended and groundwater will require discharge to the sanitary sewer, pre-treatment prior to surface discharge, or off-site treatment and disposal.

The Village of Cross Plain's wastewater treatment plant has indicated that they will accept petroleum-contaminated groundwater via discharge to the sanitary sewer. Restrictions will likely be placed on petroleum-contaminated groundwater concentrations and/or pumping rates. The village must be contacted prior to discharge to coordinate and acceptable plan.

To coordinate with the village prior to discharge, contact:

Name: Jerry Gray, Public Facilities Director
 Address: 2417 Brewery Road, Cross Plains, WI 53528
 Phone: (608) 235-1054
 Email: jerrygray@charter.net

If dewatering is required in contaminated areas, and the water is not discharged to the sanitary sewer, then means and methods together with dewatering pumping rates will impact the characterization of discharged groundwater and requirements for treatment and disposal. The DNR's concurrence with plans to accomplish dewatering will be required and will include limits on impacted water that can be discharged to the surface. Pump tests with sampling and laboratory analysis of water generated during dewatering operations in the contaminated areas will likely be required. If water is discharged to surface, meet all applicable requirements of the Wisconsin Pollution Discharge Elimination System (WPDES) General Permit for Discharge of Petroleum Contaminated Groundwater from Remedial Action Operations. This includes, but is not limited to, pretreatment of water, if required, in order to meet WPDES discharge requirements. Perform all necessary monitoring to document compliance with WPDES requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with WPDES requirements.

Ensure continuous dewatering and excavation safety at all times for all dewatering methods. 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.

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.

205-003 (20080902)

31. Backfill Coarse Aggregate Size No 2, Item 209.0300.S.01.

A Description

This special provision describes furnishing and placing coarse aggregate backfill as shown on the plans and as hereinafter provided.

B Materials

Provide clean concrete aggregate graded in accordance to the requirements as specified under standard spec 501.2.5.4.4. The soundness and wear and freeze/thaw requirements are deleted from this material.

C Construction

Construct the coarse aggregates in accordance to standard spec 209.3.

D Measurement

The department will measure Backfill Coarse Aggregate Size No 2 in volume by the cubic yard in the vehicle.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
209.0300.S.01	Backfill Coarse Aggregate Size No. 2	CY

Payment is full compensation for furnishing and installing the aggregate.

209-030 (20030820)

32. Base Aggregate Dense $\frac{3}{4}$ Inch.

This work shall be in accordance to the pertinent requirements of standard spec 305, except that the material used in all unpaved field entrances and private entrances and the top 6 inches of all unpaved portions of shoulders, as shown in the plan, shall consist of crushed stone.

33. Base Aggregate Dense $1\frac{1}{4}$ Inch.

Revise standard spec 305.2.2.1 as follows:

Use $1\frac{1}{4}$ inch base aggregate that conforms to the following gradation requirements.

Sieve	Percent Passing by Weight
$1\frac{1}{4}$ inch	95 - 100
1 inch	---
$\frac{3}{4}$ inch	70 - 90
$\frac{3}{8}$ inch	45 - 75
No. 4	30 - 60
No. 10	20 - 40
No. 40	7 - 25
No. 200	2 - 12 ^{[1], [3]}

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

^[3] 3 - 10 percent passing when base is $\geq 50\%$ crushed gravel.

34. QMP Base Aggregate.

A Description

A.1 General

- (1) This special provision describes contractor quality control (QC) sampling and testing for base aggregates, documenting those test results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.
- (2) Conform to standard spec 301, standard spec 305, and standard spec 310 as modified here in this special provision. Apply this special provision to material placed under all of the Base Aggregate Dense and Base Aggregate Open Graded bid items, except do not apply this special provision to material classified as reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.
- (3) Do not apply this special provision to material placed under the Aggregate Detours, Salvaged Asphaltic Pavement Base, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.

- (4) Provide and maintain a quality control program, defined as all activities related to and documentation of the following:
 1. Production and placement control and inspection.
 2. Material sampling and testing.
- (5) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required sampling and testing procedures. The contractor may obtain the CMM from the department's web site at:

<http://roadwaystandards.dot.wi.gov/standards/cmm/index.htm>

A.2 Contractor Testing for Small Quantities

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

Plan Quantity	Minimum Required Testing
≤ 1500 tons	One test from production, load-out, or placement at the contractor's option ^[1]
> 1500 tons and ≤ 6000 tons	Two tests of the same type, either from production, load-out, or placement at the contractor's option ^[1]
> 6000 tons and ≤ 9000 tons	Three placement tests ^{[2][3]}

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

^[2] For 3-inch material, obtain samples at load-out.

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

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

B Materials

B.1 Quality Control Plan

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

B.2 Personnel

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

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

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

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

B.3 Laboratory

- (1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:
Materials Management Section
3502 Kinsman Blvd.
Madison, WI 53704
Telephone: (608) 246-5388
<http://www.dot.state.wi.us/business/engrserv/lab-qualification.htm>

B.4 Quality Control Documentation

B.4.1 General

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

B.4.2 Records

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

B.4.3 Control Charts

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

B.5 Contractor Testing

- (1) Test gradation, fracture, liquid limit and plasticity index during placement for each base aggregate size, source or classification, and type.
- (2) Test gradation once per 3000 tons of material placed. Determine random sample locations and provide those sample locations to the engineer. Obtain samples after the material has been bladed, mixed, and shaped but before compacting; except collect 3-inch samples from the stockpile at load-out. Do not sample from material used to maintain local traffic or from areas of temporary base that will not have an overlying pavement. On days when placing only material used to maintain local traffic or only temporary base that will not have an overlying pavement, no placement testing is required.
- (3) Split each contractor QC sample and identify it according to CMM 8.30. Retain the split for 7 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.
- (4) The engineer may require additional sampling and testing to evaluate suspect material or the technician's sampling and testing procedures.
- (5) Test fracture for each gradation test until the fracture running average is above the lower warning limit. Subsequently, the contractor may reduce the frequency to one test per 10 gradation tests if the fracture running average remains above the warning limit.
- (6) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

B.6 Test Methods

B.6.1 Gradation

- (1) Test gradation using a washed analysis conforming to the following as modified in CMM 8.60:
Gradation..... AASHTO T 27
Material finer than the No. 200 sieve..... AASHTO T 11
- (2) For 3-inch base, if 3 consecutive running average points for the percent passing the No. 200 sieve are 8.5 percent or less, the contractor may use an unwashed analysis. Wash at least one sample out of 10. If a single running average for the percent passing the No. 200 sieve exceeds 8.5 percent, resume washed analyses until 3 consecutive running average points are again 8.5 percent passing or less.
- (3) Maintain a separate control chart for each sieve size specified in standard spec 305 or standard spec 310 for each base aggregate size, source or classification, and type. Set control and warning limits based on the standard specification gradation limits as follows:

1. Control limits are at the upper and lower specification limits.
2. There are no upper warning limits for sieves allowing 100 percent passing and no lower control limits for sieves allowing 0 percent passing.
3. Dense graded warning limits, except for the No. 200 sieve, are 2 percent within the upper and lower control limits. Warning limits for the No. 200 sieve are set 0.5 percent within the upper and lower control limits.
4. Open graded warning limits for the 1-inch, 3/8-inch, and No. 4 sieves are 2 percent within the upper and lower control limits. Upper warning limits for the No. 10, No. 40, and No. 200 sieves are 1 percent inside the upper control limit.

B.6.2 Fracture

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

B.6.3 Liquid Limit and Plasticity

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

B.7 Corrective Action

B.7.1 General

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

B.7.2 Placement Corrective Action

- (1) Do not blend additional material on the roadbed to correct gradation problems.
- (2) Notify the engineer whenever the running average exceeds a warning limit. When 2 consecutive running averages exceed a warning limit, the engineer and contractor will discuss appropriate corrective action. Perform the engineer's recommended corrective action and increase the testing frequency as follows:
 1. For gradation, increase the QC testing frequency to at least one randomly sampled test per 1000 tons placed.
 2. For fracture, increase the QC testing frequency to at least one test per gradation test.

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

B.8 Department Testing

B.8.1 General

- (1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within 2 business days after the department obtains the sample.

B.8.2 Verification Testing

B.8.2.1 General

- (1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in B.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.
- (2) The department will conduct QV tests of each base aggregate size, source or classification, and type during placement conforming to the following:
 1. One non-random test on the first day of placement.
 2. At least one random test per 30,000 tons, or fraction of 30,000 tons, placed.

- (3) The department will sample randomly, at locations independent of the contractor's QC work, collecting one sample at each QV location. The department will collect QV samples after the material has been bladed, mixed, and shaped but before compacting; except, for 3-inch aggregates, the department will collect samples from the stockpile at load-out. The department will split each sample, test half for QV, and retain half.
- (4) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.
- (5) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

B.8.3 Independent Assurance

- (1) Independence assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:
 1. Split sample testing.
 2. Proficiency sample testing.
 3. Witnessing sampling and testing.
 4. Test equipment calibration checks.
 5. Reviewing required worksheets and control charts.
 6. Requesting that testing personnel perform additional sampling and testing.
- (2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in B.9.

B.9 Dispute Resolution

- (1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.
- (2) Production test results, and results from other process control testing, may be considered when resolving a dispute.

- (3) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C (Vacant)

D (Vacant)

E Payment

- (1) Costs for all sampling, testing, and documentation required under this special provision are incidental to this work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the non-performance of QMP administrative item.
- (2) For material represented by a running average exceeding a control limit, the department will reduce pay by 10 percent of the contract price for the affected Base Aggregate bid items listed in subsection A. The department will administer pay reduction under the Nonconforming QMP Base Aggregate Gradation or Nonconforming QMP Base Aggregate Fracture Administrative items. The department will determine the quantity of nonconforming material as specified in B.7.2.

301-010 (20100709)

35. Protection of Concrete.

Supplement standard spec 415.3.14 with the following:

Provide for a minimum of one concrete finisher to remain on the project site after final finishing of all concrete surfaces until such time as the concrete has hardened sufficiently to resist surface scarring caused by footprints, handprints, or any other type of imprint, malicious or otherwise. The finisher shall actively and continuously patrol on foot the newly placed concrete and repair any damage to the surface that might be sustained as described above.

The cost for providing the finisher(s), the necessary equipment, and materials shall be construed to be included in the contract unit price for each concrete item.

36. QMP Ride; Incentive IRI Ride, Item 440.4410.S.

A Description

- (1) This special provision describes profiling pavements with a non-contact profiler, locating areas of localized roughness, and determining the International Roughness Index (IRI) for each wheel path segment.
- (2) Profile the final riding surface of all mainline pavements. Include auxiliary lanes in Category I and II segments; crossroads with county, state or U.S. highway designations greater than 1500 feet in continuous length; bridges, bridge approaches; and railroad crossings. Exclude roundabouts and pavements within 150 feet of the points of curvature of roundabout intersections.
- (3) The engineer may direct straight edging under standard spec 415.3.10 for pavement excluded from localized roughness under C.5.2 (1); for bridges; and for roundabouts and pavements within 150 feet of the points of curvature of roundabout intersections. Other surfaces being tested under this provision are exempt from straight edging requirements.

B (Vacant)

C Construction

C.1 Quality Control Plan

- (1) Submit a written quality control plan to the engineer at or before the pre-pave meeting. 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 all quality control personnel.
 2. The process by which quality control information and corrective action efforts will be disseminated to the appropriate persons. Include a list of recipients, the communication means that will be used, and action time frames.
 3. The methods and timing used for monitoring and/or testing ride quality throughout the paving process. Also indicate the approximate timing of acceptance testing in relation to the paving operations.
 4. The segment locations of each profile run used for acceptance testing.
 5. Traffic Control Plan

C.2 Personnel

- (1) Have a profiler operator, certified under the department's highway technician certification program (HTCP), operate the equipment, collect the required data, and analyze the results using the methods taught in the HTCP profiling course. Ensure that an HTCP-certified profiler operator supervises data entry into the material records system (MRS).

C.3 Equipment

- (1) Furnish a profile-measuring device capable of measuring IRI from the list of department-approved devices published on the department's web site:
<http://roadwaystandards.dot.wi.gov/standards/qmp/index.htm>
- (2) Unless the engineer and contractor mutually agree otherwise, arrange to have a calibrated profiler available when paving the final riding surface.
- (3) Perform daily calibration verification of the profiler using test methods according to the manufacturer's recommendations. Notify the engineer before performing the calibration verification. If the engineer requests, arrange to have the engineer observe the calibration verification and operation. Maintain records of the calibration verification activities, and provide the records to the engineer upon request.

C.4 Testing

C.4.1 Run and Reduction Parameters

- (1) Enter the equipment-specific department-approved filter settings and parameters given in the approved profilers list on the department's QMP ride web site.
<http://roadwaystandards.dot.wi.gov/standards/qmp/profilers.pdf>

C.4.2 Contractor Testing

- (1) Operate profilers within the manufacturer's recommended speed tolerances. Perform all profile runs in the direction of travel. Measure the longitudinal profile of each wheel track of each lane. The wheel tracks are 6.0 feet apart and centered in the traveled way of the lane.
- (2) Coordinate with the engineer to schedule profile runs for acceptance. The department may require testing to accommodate staged construction or if corrective action may be required.
- (3) Measure the profiles of each standard or partial segment. Define primary segments starting at a project terminus and running contiguously along the mainline to the other project terminus. Field-locate the beginning and ending points for each profile run. When applicable, align segment limits with the subplot limits used for testing under the QMP Concrete Pavement specification. Define segments one wheel path wide and distinguished by length as follows:
 1. Standard segments are 500 feet long.
 2. Partial segments are less than 500 feet long.

- (4) Treat partial segments as independent segments.

The department will categorize each standard or partial segment as follows:

Segments with a Posted Speed Limit of 55 MPH or Greater	
Category	Description
HMA I	Asphalt pavement with multiple opportunities to achieve a smooth ride. The following operations performed under this contract are considered as opportunities: a layer of HMA, a leveling or wedging layer of HMA, and diamond grinding or partial depth milling of the underlying pavement surface.
HMA II	Asphalt pavement with a single opportunity to achieve a smooth ride.
HMA III	Asphalt pavement segments containing any portion of a bridge, bridge approach, railroad crossing, or intersection. An intersection is defined as the area within the points of curvature of the intersection radii.
PCC II	Concrete pavement.
PCC III	Concrete pavement segments containing any portion of a bridge, bridge approach, railroad crossing, intersection or gap. An intersection is defined as the area within the points of curvature of the intersection radii.

Segments with Any Portion Having a Posted Speed Limit Less Than 55 MPH	
Category	Description
HMA IV	Asphalt pavement including intersections, bridges, approaches, and railroad crossings.
PCC IV	Concrete pavement including gaps, intersections, bridges, approaches, and railroad crossings.

C.4.3 Verification Testing

- (1) The department may conduct verification testing (QV) to validate the quality of the product. A HTCP certified profiler operator will perform the QV testing. The department will provide the contractor with a listing of the names and telephone numbers of all verification personnel for the project.
- (2) The department will notify the contractor before testing so the contractor can observe the QV testing. Verification testing will be performed independent of the contractor's QC work using separate equipment from the contractor's QC tests. The department will provide test results to the contractor within 1 business day after the department completes the testing.
- (3) The engineer and contractor will jointly investigate any testing discrepancies. The investigation may include additional testing as well as review and observation of both the department's and contractor's testing procedures and equipment. Both parties will document all investigative work.

- (4) If the contractor does not respond to an engineer request to resolve a testing discrepancy, the engineer may suspend production until action is taken. Resolve disputes as specified in C.6.

C.4.4 Documenting Profile Runs

- (1) Compute the IRI for each segment and analyze areas of localized roughness using the ProVAL software. Also, the contractor shall prepare the ProVAL Ride Quality Module Reports, showing the IRI for each segment and the areas of localized roughness exceeding an IRI of 200 in/mile. Use ride quality module report as follows:

	<u>Fixed Interval</u>	<u>Continuous (Localized Roughness)</u>
Base-length	500'	25'
Threshold	140"/Mile	200"/Mile

The ProVAL software is available for download at:

<http://www.roadprofile.com>.

- (2) As part of the profiler software outputs and ProVAL reports, document the areas of localized roughness. Field-locate the areas of localized roughness prior to the engineer's assessment for corrective actions. Document the reasons for areas excluded and submit to the engineer.
- (3) Within 5 business days after completing profiling of the pavement covered under this special provision, unless the engineer and contractor mutually agree to a different timeline, submit the electronic ProVAL project file containing the .ppf files for each profiler acceptance run data and Ride Quality Module Reports, in .pdf format using the department's Materials Reporting System (MRS) software available on the department's web site:

<http://www.atwoodsystems.com/mrs>

Notify the engineer when the Profiler Acceptance Run data and the Ride Quality Report have been submitted to the MRS system.

C.5 Corrective Actions

C.5.1 General

- (1) Analyze the data from the PROVAL reports and make corrective action recommendations to the department. The department will independently assess whether a repair will help or hurt the long-term pavement performance before deciding on corrective action. Correct the ride as the engineer directs in writing.

C.5.2 Corrective Actions for Localized Roughness

- (1) Apply localized roughness requirements to all pavements, including HMA III, PCC III, HMA IV, and PCC IV; except localized roughness requirements will not be applied to pavements within 25 feet of the following surfaces if they are not constructed under this contract: bridges, bridge approaches, or railroad crossings. The department may direct the contractor to make corrections to the pavement within the 25-foot exclusionary zones.
- (2) The engineer will review each individual wheel track for areas of localized roughness. The engineer will assess areas of localized roughness within 5 business days of receiving notification that the reports were uploaded. The engineer will analyze the report documenting areas that exceed an IRI of 200 in/mile and do one of the following for each location:
 1. Direct the contractor to correct the area to minimize the effect on the ride.
 2. Leave the area of localized roughness in place with no pay reduction.
 3. Except for HMA IV and PCC IV segments, assess a pay reduction as follows for each location in each wheel path:

Localized Roughness IRI (in/mile)	Pay Reduction^[1] (dollars)
> 200	(Length in Feet) x (IRI – 200)

^[1] A maximum \$250 pay reduction may be assessed for locations of localized roughness that are less than or equal to 25 feet long. Locations longer than 25 feet may be assessed a maximum pay reduction of \$10 per foot.

- (3) The engineer will not direct corrective action or assess a pay reduction for an area of localized roughness without independent identification of that area as determined by physically riding the pavement. For corrections, use only techniques the engineer approves.
- (4) Re-profile corrected areas to verify that the IRI is less than 140 in/mile after correction. Submit a revised ProVAL ride quality module report to the reference documents section of the MRS for the corrected areas to validate the results.

C.5.3 Corrective Actions for Excessive IRI

- (1) If an individual segment IRI exceeds 140 in/mile for HMA I, HMA II, and PCC II pavements after correction for localized roughness, the engineer may require the contractor to correct that segment. Correct the segment final surface as follows:

- HMA I: Correct to an IRI of 60 in/mile using whichever of the following methods as approved by the engineer:
Mill and replace the full lane width of the riding surface excluding the paved shoulder.
Continuous diamond grinding or fine-tooth milling the full lane width, if required, of the riding surface including adjustment of the paved shoulders.
- HMA II: Correct to an IRI of 85 in/mile using whichever of the following methods as approved by the engineer:
Mill and replace the full lane width of the riding surface excluding the paved shoulder.
Continuous diamond grinding or fine-tooth milling of the full lane width, if required, of the riding surface including adjustment of the paved shoulders
- PCC II: Correct to an IRI of 85 in/mile using whichever of the following methods as approved by the engineer:
Continuous diamond grinding of the full lane width, if required, of the riding surface including adjustment of the paved shoulders. Conform to sections C.1 through C.4 of Concrete Pavement Continuous Diamond Grinding Special provision contained elsewhere in the contract.
Remove and replace the full lane width of the riding surface.

- (2) Re-profile corrected segments to verify that the final IRI meets the above correction limits and there are no areas of localized roughness. Enter a revised ProVAL ride quality module report for the corrected areas to the reference documents section of the MRS. Segments failing these criteria after correction are subject to the engineer's right to adjust pay for non-conforming work under standard spec 105.3.

C.6 Dispute Resolution

- (1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate testing procedures, and perform additional testing.
- (2) If the project personnel cannot resolve a dispute and the dispute affects payment or could result in incorporating nonconforming pavement, the department will use third party testing to resolve the dispute. The department's Quality Assurance Unit, or a mutually agreed on independent testing company, 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 tester. The department may use third party tests to evaluate the quality of questionable pavement and determine the appropriate payment.

D Measurement

- (1) The department will measure Incentive IRI Ride by the dollar, adjusted as specified in E.2.

E Payment

E.1 Payment for Profiling

- (1) Costs for furnishing and operating the profiler, documenting profile results, and correcting the final pavement surface are incidental to the contract. The department will pay separately for engineer-directed corrective action performed within the 25-foot exclusionary zones under C.5.2 as extra work.

E.2 Pay Adjustment

- (1) The department will pay incentive for ride under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
440.4410.S	Incentive IRI Ride	DOL

- (2) Incentive payment is not limited, either up or down, to the amount the schedule of items shows.
- (3) The department will administer disincentives for ride under the Disincentive IRI Ride administrative item.
- (4) The department will not assess disincentive on HMA III or PCC III segments. Incentive pay for HMA III and PCC III segments will be according to the requirements for the category of the adjoining segments.
- (5) The department will adjust pay for each segment based on the initial IRI for that segment. If corrective action is required, the department will base disincentives on the IRI after correction for pavement meeting the following conditions:
 - All Pavement: The corrective work is performed in a contiguous, full lane width section 500 feet long, or a length as agreed with the engineer.
 - HMA Pavements: The corrective work is a mill and inlay or full depth replacement and the inlay or replacement layer thickness conforms to standard spec 460.3.2.
 - Concrete Pavements: The corrective work is a full depth replacement and conforms to standard spec 415.

- (6) The department will adjust pay for 500-foot long standard segments nominally one wheel path wide using equation “QMP 1.04” as follows:

HMA I	
Initial IRI (inches/mile)	Pay Adjustment^[1] (dollars per standard segment)
< 30	250
≥ 30 to <35	$1750 - (50 \times \text{IRI})$
≥ 35 to < 60	0
≥ 60 to < 75	$1000 - (50/3 \times \text{IRI})$
≥ 75	-250

HMA II and PCC II	
Initial IRI (inches/mile)	Pay Adjustment^{[1][2]} (dollars per standard segment)
< 50	250
≥ 50 to < 55	$2750 - (50 \times \text{IRI})$
≥ 55 to < 85	0
≥ 85 to < 100	$(4250/3) - (50/3 \times \text{IRI})$
≥ 100	-250

HMA IV and PCC IV	
Initial IRI (inches/mile)	Pay Adjustment^{[1][2]} (dollars per standard segment)
< 35	250
≥ 35 to < 45	$1125 - (25 \times \text{IRI})$
≥ 45	0

^[1] The department will not assess a ride disincentive for HMA pavement placed in cold weather because of a department-caused delay as specified in standard spec 450.5(4) of the contract additional special provisions (ASP 6).

^[2] If the engineer directs placing concrete pavement for department convenience, the department will not adjust pay for ride on pavement the department orders the contractor to place when the air temperature falls below 35 F.

- (7) The department will prorate the pay adjustment for partial segments based on their length.

37. QMP HMA Pavement Nuclear Density.

A Description

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

- (1) This special provision describes density testing of in-place HMA pavement with the use of nuclear density gauges. Conform to standard spec 460 as modified in this special provision.
- (2) Provide and maintain a quality control program defined as all activities and documentation of the following:
 1. Selection of test sites.
 2. Testing.
 3. Necessary adjustments in the process.
 4. Process control inspection.
- (3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required procedures. Obtain the CMM from the department's web site at:
<http://roadwaystandards.dot.wi.gov/standards/cmm/index.htm>
- (4) The department's Materials Reporting System (MRS) software allows contractors to submit data to the department electronically, estimate pay adjustments, and print selected reports. Qualified personnel may obtain MRS software from the department's web site at:

<http://www.atwoodsystems.com/mrs>

B Materials

B.1 Personnel

- (1) Perform HMA pavement density (QC, QV) testing using a HTCP certified nuclear technician I, or a nuclear assistant certified technician (ACT-NUC) working under a certified technician.
- (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.

B.2 Testing

- (1) Conform to ASTM D2950 and CMM 8.15 for density testing and gauge monitoring methods. Perform nuclear gauge measurements using gamma radiation in the backscatter position. Perform each test for 4 minutes of nuclear gauge count time.

B.3 Equipment

B.3.1 General

- (1) Furnish nuclear gauges from the department's approved product list at <http://www.dot.wisconsin.gov/business/engrserv/approvedprod.htm>.
- (2) Have the gauge calibrated by the manufacturer or an approved calibration service within 12 months of its use on the project. Retain a copy of the manufacturer's calibration certificate with the gauge.
- (3) Prior to each construction season, and following any calibration of the gauge, the contractor must perform calibration verification for each gauge using the reference blocks located in the department's central office materials laboratory. To obtain information or schedule a time to perform calibration verification, contact the department's Radiation Safety Officer at:
Materials Management Section
3502 Kinsman Blvd.
Madison, Wisconsin 53704
Telephone: (608) 243-5998

B.3.2 Correlation of Nuclear Gauges

B.3.2.1 Correlation of QC and QV Nuclear Gauges

- (1) Select a representative section of the compacted pavement prior to or on the first day of paving for the correlation process. The section does not have to be the same mix design.
- (2) Correlate the 2 or more gauges used for density measurement (QC, QV). The QC and QV gauge operators will perform the correlation on 5 test sites jointly located. Record each density measurement of each test site for the QC, QV and back up gauges.
- (3) Calculate the average of the difference in density of the 5 test sites between the QC and QV gauges. Locate an additional 5 test sites if the average difference exceeds 1.0 lb/ft³. Measure and record the density on the 5 additional test sites for each gauge.
- (4) Calculate the average of the difference in density of the 10 test sites between the QC and QV gauges. Replace one or both gauges if the average difference of the 10 tests exceeds 1.0 lb/ft³ and repeat correlation process from B.3.2.1 (2).
- (5) Furnish one of the QC gauges passing the allowable correlation tolerances to perform density testing on the project.

B.3.2.2 Correlation Monitoring

- (1) After performing the gauge correlation specified in B.3.2.1, establish a project reference site approved by the department. Clearly mark a flat surface of concrete or asphalt or other material that will not be disturbed during the duration of the project. Perform correlation monitoring of the QC, QV, and all back-up gauges at the project reference site.

- (2) Conduct an initial 10 density tests with each gauge on the project reference site and calculate the average value for each gauge to establish the gauge's reference value. Use the gauge's reference value as a control to monitor the calibration of the gauge for the duration of the project.
- (3) Check each gauge on the project reference site a minimum of one test per day if paving on the project. Calculate the difference between the gauge's daily test result and its reference value. Investigate if a daily test result is not within 1.5 lb/ft³ of its reference value. Conduct 5 additional tests at the reference site once the cause of deviation is corrected. Calculate and record the average of the 5 additional tests. Remove the gauge from the project if the 5-test average is not within 1.5 lb/ft³ of its reference value established in B.3.2.2(2).
- (4) Maintain the reference site test data for each gauge at an agreed location.

B.4 Quality Control Testing and Documentation

B.4.1 Lot and Sublot Requirements

B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances

- (1) A lot consists of the tonnage placed each day for each layer and target density specified in standard spec 460.3.3.1. A lot may include partial sublots.
- (2) Divide the roadway into sublots. A sublot is 1500 lane feet for each layer and target density.
- (3) A sublot may include HMA placed on more than one day of paving. Test sublots at the pre-determined random locations regardless of when the HMA is placed. No additional testing is required for partial sublots at the beginning or end of a day's paving.
- (4) If a resulting partial quantity at the end of the project is less than 750 lane feet, include that partial quantity with the last full sublot of the lane. If a resulting partial quantity at the end of the project is 750 lane feet or more, create a separate sublot for that partial quantity.
- (5) Randomly select test locations for each sublot as specified in CMM 8.15 prior to paving and provide a copy to the engineer. Locate and mark QC density test sites when performing the tests. Perform density tests prior to opening the roadway to traffic.
- (6) Use Table 1 to determine the number of tests required at each station, depending on the width of the lane being tested. When more than one test is required at a station, offset the tests 10 feet longitudinally from one another to form a diagonal testing row across the lane.

Lane Width	No. of Tests	Transverse Location
5 ft or less	1	Random
Greater than 5 ft to 9 ft	2	Random within 2 equal widths
Greater than 9 ft	3	Random within 3 equal widths

Table 1

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

- (1) A lot represents a combination of the total daily tonnage for each layer and target density.
- (2) Each side road, crossover, turn lane, ramp, and roundabout must contain at least one subplot for each layer.
- (3) If a side road, crossover, turn lane, or ramp is 1500 feet or longer, determine sublots and random test locations as specified in B.4.1.1.
- (4) If a side road, crossover, turn lane, or ramp is less than 1500 feet long, determine sublots using a maximum of 750 tons per subplot and perform the number of random tests as specified in Table 2.

Side Roads, Turn Lanes, Crossovers, Ramps, Roundabouts: Sublot/Layer tonnage	Minimum Number of Tests Required
25 to 100 tons	1
101 to 250 tons	3
251 to 500 tons	5
501 to 750 tons	7

Table 2

B.4.2 Pavement Density Determination

B.4.2.1 Mainline Traffic Lanes and Appurtenances

- (1) Calculate the average subplot densities using the individual test results in each subplot.
- (2) If all subplot averages are no more than one percent below the target density, calculate the daily lot density by averaging the results of each random QC test taken on that day's material.
- (3) If any subplot average is more than one percent below the target density, do not include the individual test results from that subplot when computing the lot average density and remove that subplot's tonnage from the daily quantity for incentive. The tonnage from any such subplot is subject to disincentive pay according to standard spec 460.5.2.2.

B.4.2.2 Mainline Shoulders

B.4.2.2.1 Width Greater Than 5 Feet

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

B.4.2.2.2 Width of 5 Feet or Less

- (1) If all subplot test results are no more than 3.0 percent below the minimum target density, calculate the daily lot density by averaging all individual test results for the day.
- (2) If a subplot test result is more than 3.0 percent below the target density, the engineer may require the unacceptable material to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine the limits of the unacceptable material according to B.4.3.

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

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

B.4.2.4 Documentation

- (1) Document QC density test data as specified in CMM 8.15. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

B.4.3 Corrective Action

- (1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.
- (2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted subplot. Testing in a previously accepted subplot will not be used to recalculate a new lot density.
- (3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full subplot width within the traffic lanes or shoulders.
- (4) Retesting and acceptance of replaced pavement will be according to standard spec 105.3.
- (5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the subplot and lot densities.
- (6) If 2 consecutive subplot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

B.5 Department Testing

B.5.1 Verification Testing

- (1) The department will have a HTCP certified technician, or ACT working under a certified technician, perform verification testing. The department will test randomly at locations independent of the contractor's QC work. The department will perform verification testing at a minimum frequency of 10 percent of the sublots and a minimum of one subplot per mix design. The sublots selected will be within the active work zone. The contractor will supply the necessary traffic control for the department's testing activities.
- (2) The QV tester will test each selected subplot using the same testing requirements and frequencies as the QC tester.
- (3) If the verification subplot average is not more than one percent below the specified minimum target density, use the QC tests for acceptance.
- (4) If the verification subplot average is more than one percent below the specified target density, compare the QC and QV subplot averages. If the QV subplot average is within 1.0 lb/ft^3 of the QC subplot average, use the QC tests for acceptance.
- (5) If the first QV/QC subplot average comparison shows a difference of more than 1.0 lb/ft^3 each tester will perform an additional set of tests within that subplot. Combine the additional tests with the original set of tests to compute a new subplot average for each tester. If the new QV and QC subplot averages compare to within 1.0 lb/ft^3 , use the original QC tests for acceptance.
- (6) If the QV and QC subplot averages differ by more than 1.0 lb/ft^3 after a second set of tests, resolve the difference with dispute resolution specified in B.6. The engineer will notify the contractor immediately when density deficiencies or testing precision exceeding the allowable differences are observed.

B.5.2 Independent Assurance Testing

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

B.6 Dispute Resolution

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

- (2) The testers may use correlation monitoring according to B.3.2.2 to determine if one of the gauges is out of tolerance. If a gauge is found to be out of tolerance with its reference value, remove the gauge from the project and use the other gauge's test results for acceptance.
- (3) If the testing discrepancy cannot be identified, the contractor may elect to accept the QV subplot density test results or retesting of the subplot in dispute within 48 hours of paving. Traffic control costs will be split between the department and the contractor.
- (4) If investigation finds that both gauges are in error, the contractor and engineer will reach a decision on resolution through mutual agreement.

B.7 Acceptance

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

C (Vacant)

D (Vacant)

E Payment

E.1 QMP Testing

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

E.2 Disincentive for HMA Pavement Density

- (1) The department will administer density disincentives according to standard spec 460.5.2.2.

E.3 Incentive for HMA Pavement Density

- (1) Delete standard spec 460.5.2.3.
- (2) If the lot density is greater than the minimum specified in standard spec table 460-3 and all individual air voids test results for that mixture are within +1.0 percent or -0.5 percent of the design target in standard spec table 460-2, the department will adjust pay for that lot as follows:

Percent Lot Density Above Minimum	Pay Adjustment Per Ton
From -0.4 to 1.0 inclusive	\$0
From 1.1 to 1.8 inclusive	\$0.40
More than 1.8	\$0.80

- (3) The department will adjust pay under the Incentive Density HMA Pavement bid item. Adjustment under this item is not limited, either up or down, to the bid amount shown on the schedule of items.

- (4) If a traffic lane meets the requirements for disincentive, the department will not pay incentive on the integrally paved shoulder.
- (5) Submit density results to the department electronically using the MRS software. The department will validate all contractor data before determining pay adjustments.
- 460-020 (20100709)

38. Polymer Overlay, Item 509.5100.S.

A Description

This special provision describes furnishing and applying two layers of a two-component polymer overlay system to the bridge decks shown on the plans. The minimum total thickness of the overlay system shall be 1/4".

B Materials

B.1 General

Furnish materials specifically designed for use over concrete bridge decks. Furnish polymer liquid binders from the department's approved product list.

B.2 Polymer Resin

The polymer resin base and hardener shall be composed of two-component, 100% solids, 100% reactive, thermosetting compound with the following properties:

Property	Requirements	Test Method
Gel Time ^A	15 - 45 minutes @ 73° to 75° F	ASTM C881
Viscosity ^A	7 - 70 poises	ASTM D2393, Brookfield RVT, Spindle No. 3, 20 rpm
Shore D Hardness ^B	60-75	ASTM D2240
Absorption ^B	1% maximum at 24 hr	ASTM D570
Tensile Elongation ^B	30% - 70% @ 7 days	ASTM D638
Tensile Strength ^B	>2000 psi @ 7 days	ASTM D638
Chloride Permeability ^B	<100 coulombs @ 28 days	AASHTO T277

^A Uncured, mixed polymer binder

^B Cured, mixed polymer binder

B.3 Aggregates

Furnish natural or synthetic aggregates that have a proven record of performance in applications of this type. Furnish aggregates that are non-polishing, clean, free of surface moisture, fractured or angular in shape; free from silt, clay, asphalt, or other organic materials; and meet the following properties and gradation requirements:

Aggregate Properties:

Property	Requirement	Test Method
Moisture Content*	½ of the measured aggregate absorption, %	ASTM C566
Hardness	³ 6.5	Mohs Scale
Fractured Faces	100% with at least 1 fractured face and 80% with at least 2 fractured faces of material retained on No.16	ASTM 5821
Absorption	≤1%	ASTM C128

* Sampled and tested at the time of placement.

Gradation:

Sieve Size	% Passing by Weight
No. 4	100
No. 8	30 – 75
No. 16	0 – 5
No. 30	0 – 1

B.4 Required Properties of Overlay System

The required properties of the overlay system are listed in the table below:

Property	Requirement ^A	Test Method
Minimum Compressive Strength at 8 Hrs. (psi)	1,000 psi @ 8 hrs 5,000 psi @ 24 hrs	ASTM C 579 Method B, Modified ^B
Thermal Compatibility	No Delaminations	ASTM C 884
Minimum Pull-off Strength	250 psi @ 24 hrs	ACI 503R, Appendix A

^A Based on samples cured or aged and tested at 75°F

^B Plastic inserts that will provide 2-inch by 2-inch cubes shall be placed in the oversized brass molds.

B.5 Approval of Bridge Deck Polymer Overlay System

A minimum of 20 working days prior to application, submit product data sheets and specifications from the manufacturer, and a certified test report to the engineer for approval. The engineer may request samples of the polymer and/or aggregate, prior to application, for the purpose of acceptance testing by the department.

For materials not pre-qualified, in addition to the above submittals, submit product history/reference projects and a certified test report from an independent testing laboratory showing compliance with the requirements of the specification.

The product history/reference projects consist of a minimum of five bridge/roadway locations where the proposed overlay system has been applied in Wisconsin or in locations with a similar climate - include contact names for the facility owner, current phone number or e-mail address, and a brief description of the project.

Product data sheets and specifications from the manufacturer consists of literature from the manufacturer showing general instructions, application recommendations/methods, product properties, general instructions, or any other applicable information.

C Construction

C.1 General

Conduct a pre-installation conference with the manufacturer's representative prior to construction to establish procedures for maintaining optimum working conditions and coordination of work. Furnish the engineer a copy of the recommended procedures and apply the overlay system according to the manufacturer's instructions. The manufacturer's representative familiar with the overlay system installation procedures shall be present at all times during surface preparation and overlay placement to provide quality assurance that the work is being performed properly.

Store resin materials in their original containers in a dry area. Store and handle materials according to the manufacturer's recommendations. Store all aggregates in a dry environment and protect aggregates from contaminants on the job site.

C.2 Deck Preparation

C.2.1. Deck Repair

Remove all asphaltic patches and unsound or disintegrated areas of the concrete decks as the plans show, or as the engineer directs. Work performed to repair the concrete deck will be paid for under other items. Ensure that products used for deck patching are compatible with the polymer overlay system.

NOTE: Some polymer systems require concrete patch material to be in place a minimum of 28-days before overlaying - contact polymer manufacturer before completing deck patching/repair.

C.2.2 Surface Preparation

Determine an acceptable shotblasting machine operation (size of shot, flow of shot, forward speed, and/or number of passes) that provides a surface a profile meeting CSP 5 according to the International Concrete Repair Institute Technical Guideline No. 03732. If the engineer requires additional verification of the surface preparation, test the tensile bond strength according to ACI 503R, Appendix A of the *ACI Manual of Concrete Practice*. The surface preparation will be considered acceptable if the tensile bond strength is greater than or equal to 250 psi or the failure area at a depth of 1/4 inches or more is greater than 50% of the test area. Continue adjustment of the shotblasting machine and necessary testing until the surface is acceptable to the engineer or a passing test result is obtained.

Prepare the entire deck using the final accepted adjustments to the shotblasting machine as determined above. Thoroughly blast clean with hand-held equipment any areas inaccessible by the shotblasting equipment. Do not perform surface preparation more than 24 hours prior to the application of the overlay system.

Prepare the vertical concrete surfaces adjacent to the deck a minimum of 2" above the overlay according to SSPC-SP 13 by sand blasting, using wire wheels, or other approved method.

Just prior to overlay placement, clean all dust, debris, and concrete fines from the prepared surfaces including the vertical surfaces with compressed air. When using compressed air, the air stream must be free of oil. Any grease, oil, or other foreign matter that rests on or has absorbed into the concrete shall be removed completely. If any prepared surfaces (including the first layer of the polymer overlay) are exposed to rain or dew, lightly sandblast (breeze blast) the exposed surfaces.

Protect drains, expansion joints, access hatches, or other appurtenances on the deck from damage by the shot and sand blasting operations and from materials adhering and entering. Tape or form all construction joints to provide a clean straight edge.

Create a transitional area approaching transverse expansion joints and ends of the deck using the shotblasting machine or other approved method. Remove 5/16" to 3/8" of concrete adjacent to the joint or end of deck and taper a distance of 3 feet.

The engineer may consider alternate surface preparation methods per the overlay system manufacture's recommendations. The engineer will approve the final surface profile and deck cleanliness prior to the contractor placing the polymer overlay.

C.3 Application of the Overlay

Perform the handling and mixing of the polymer resin and hardening agent in a safe manner to achieve the desired results according to the manufacturer's instructions. Do not apply the overlay system if any of the following exists:

- a. Ambient air temperature is below 50°F;
- b. Deck temperature is below 50°F;
- c. Moisture content in the deck exceeds 4.5% when measured by an electronic moisture meter or shows visible moisture after 2 hours when measured in accordance to ASTM D4263;
- d. Rain is forecasted during the minimum curing periods listed under C.5;
- e. Materials component temperatures below 50°F or above 99°F;
- f. Concrete age is less than 28 days unless approved by the engineer.
- g. The deck temperature exceeds 100°F.
- h. If the gel time is 10 minutes or less at the predicted high air temperature for the day.

After the deck has been shotblasted or during the overlay curing period, only necessary surface preparation and overlay application equipment will be allowed on the deck. Begin overlay placement as soon as possible after surface preparation operations.

The polymer overlay shall consist of a two-course application of polymer and aggregate. Each of the two courses shall consist of a layer of polymer covered with a layer of aggregate in sufficient quantity to completely cover the polymer. Apply the polymer and aggregate according to the manufacturer's requirements. Apply the overlay using equipment designed for this purpose. The application machine shall feature positive displacement volumetric metering and be capable of storing and mixing the polymer resins at the proper mix ratio. Disperse the aggregate using a standard chip spreader or equivalent machine that can provide a uniform, consistent coverage of aggregate. First course applications that do not receive enough aggregate before the polymer gels shall be removed and replaced. A second course applied with insufficient aggregate may be left in place, but will require additional applications before opening to traffic.

After completion of each course, cure the overlay according to the manufacturer's instructions. Follow the minimum cure times listed under C.5 or as prescribed by the manufacturer. Remove the excess aggregate from the surface treatment by sweeping, blowing, or vacuuming without tearing or damaging the surface; the material may be re-used if approved by the engineer and manufacturer. Apply all courses of the overlay system before opening the area to traffic. Do not allow traffic on the treated area until directed by the engineer.

After the first layer of coating has cured to the point where the aggregate cannot be pulled out, apply the second layer. Prior to applying the second layer, broom and blow off the first layer with compressed air to remove all loose excess aggregate.

Prior to opening to traffic, clean expansion joints and joint seals of all debris and polymer. If required by the engineer, a minimum of 3 days following opening to traffic, remove loosened aggregates from the deck, expansion joints, and approach pavement.

C.4 Application Rates

Apply the polymer overlay in two separate courses in accordance to the manufacturer's instructions, but not less than the following rate of application.

Course	Minimum Polymer Rate ^A (GAL/100 SF)	Aggregate ^B (LBS/SY)
1	2.5	10+
2	5.0	14+

^A The minimum total applications rate is 7.5 GAL/100 SF.

^B Application of aggregate shall be of sufficient quantity to completely cover the polymer.

C.5 Minimum Curing Periods

As a minimum, cure the coating as follows:

	Average temperature of deck, polymer and aggregate components in °F							
Course	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99
1	6 hrs.	5 hrs.	4 hrs.	3 hrs.	2.5 hrs	2 hrs	1.5 hrs.	1 hr.
2	8 hrs.	6.5 hrs.	6.5 hrs.	5 hrs.	4 hrs.	3 hrs.	3 hrs.	3 hrs.

C.6 Repair of Polymer Overlay

Repair all areas of unbonded, uncured, or damaged polymer overlay for no additional compensation. Submit repair procedures from the manufacturer to the engineer for approval. Absent a manufacturer's repair procedures and with the approval of the engineer, complete repairs according to the following: Saw cut the limits of the area to the top of the concrete; remove the overlay by scarifying, grinding, or other approved methods; shot blast or sand blast and air blast the concrete prior to placement of polymer overlay; and place the polymer overlay according to section C.3.

D Measurement

The department will measure Polymer Overlay in area by the square yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
509.5100.S	Polymer Overlay	SY

Payment is full compensation for preparing the surface; for tensile bond testing; for providing the overlay; for cleanup; and for sweeping/vacuuming and disposing of excess materials. Concrete Deck Repair will be paid for separately.
509-030 (20130615)

39. Concrete Staining B-13-799, Item 517.1010.S.01.

A Description

Furnish and apply a two coat concrete stain to the exposed concrete surfaces of the structure, as detailed in the plans and as hereinafter provided.

B Materials

B.1 Mortar

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

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

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

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

B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces, consisting of a base coat and a pigmented sealer finish coat. Use the following products, or equal as approved by the department, as part of the two coat finish system:

Tri-Sheen Concrete Surfacer, Smooth by TK Products
Tri-Sheen Acrylic by TK Products
TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products
Safe-Cure and Seal EPX by Chem Masters
H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

C Construction

C.1 General

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

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

C.2 Preparation of Concrete Surfaces

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

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

C.3 Staining Concrete Surfaces

Apply the concrete stain in accordance to the manufacturer's recommendations.

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

The color of the stain shall be as given on the plan. Tint the base coat to match the finish coat; the two coats shall be compatible with each other.

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

C.4 Test Areas

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

C.5 Surfaces to be Coated.

Apply concrete stain to the surfaces in accordance to the plan.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1010.S.01	Concrete Staining B-13-799	SF

Payment is full compensation for furnishing and applying the two coat system; for preparing the concrete surface; and for preparing the sample panels.
517-110 (20140630)

40. Architectural Surface Treatment B-13-799, Item 517.1050.S.01.

A Description

Construct a concrete masonry architectural surface treatment on the exposed concrete surfaces of the structure, as detailed in the plans and as hereinafter provided.

B Materials

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

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

Wall ties shall have set “break-backs” at a minimum of ¾-inches from the finished concrete surface.

C Construction

C.1 Equipment

Equipment and tools necessary for performing all parts of the work shall be satisfactory as to design, capacity, and mechanical condition for the purposes intended. Repair, improve, replace, or supplement all equipment that is not maintained in full working order, or which is proven inadequate to obtain the results prescribed.

C.2 Form Liner Preparation

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

Apply form release per manufacturer’s recommendations.

C.3 Form Liner Attachment

Place adjacent liners less than ¼-inch from each other, attach liner securely to forms in accordance to the manufacturer’s recommendations, and coordinate wall ties with form liner and form manufacturer, e.g., diameter, size, and frequency.

C.4 Surface Finishing

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

Grind or fill pouring blemishes.

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S.01	Architectural Surface Treatment B-13-799	SF

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

517-150 (20110615)

41. Wall Modular Block Gravity, Item 532.0200.S.

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.

B Materials

B.1 Proprietary Modular Block Gravity Wall Systems

The department specifies approved modular block gravity wall products on the department's approved products list. Provide block tan in color.

Proprietary wall systems may be used for this work, but must conform to the requirements of this specification and be pre-approved for use by the departments' Bureau of Structures, Structures Development Section. The name of the companies supplying pre-approved material shall be furnished within 25 days after the award of contract. The department maintains a list of pre-approved systems of retaining walls. To be eligible for use on this project, a system must have been pre-approved and added to that list prior to the bid opening date.

Applications for pre-approval may be submitted at any time. Applications must be prepared in accordance to the requirements of chapter 14 of the department's Bridge manual. Information and assistance with the pre-approval process can be obtained by contacting the Structures Development Section in Room 601 of the Hill Farms State Transportation Building in Madison or by calling (608) 266-8494.

B.2 Design Requirements

It is the responsibility of the contractor to supply a design and supporting documentation as required by this special provision for review by the department to show that the proposed wall design is in compliance with the design specifications. The following shall be submitted to the engineer for review and acceptance no later than 21 days before wall construction will begin.

The design/shop plans shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the project identification number and structure number. Design calculations and notes shall be on 8½ 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 and calculations shall be signed, sealed, and dated by a professional engineer licensed in the State of Wisconsin. Four copies of the shop drawings and two copies of the design calculations and supporting materials shall be submitted.

The design of the Modular Block Gravity Wall shall be in conformance to the latest edition of the AASHTO Standard Specifications for Highway Bridges including interim specifications, the standard specifications, and standard engineering design procedures as determined by the department. The design must include analyses that clearly show the factors of safety for overturning, sliding, and soil bearing stress. The width of the modular block from front face to back face of the wall shall be given in the design computations and shown on the wall shop drawings.

The minimum embedment to the bottom of the modular block shall be 1 foot 6 inches, or as specified in the plan.

B.3 Wall System Components

Materials furnished under this contract shall conform to the requirements hereinafter provided.

B.3.1 Backfill

Wall Backfill, Type A, shall comply with the requirements for coarse aggregate No. 1 as given in standard spec 501.2.5.4. All backfill placed within a zone from the base 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 Fabric Type “DF” (Schedule B) shall be placed vertically between the retained soil and the Type A backfill. The geotextile fabric 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.

B.3.2 Wall Facing

Provide wall facing units that consist of precast modular concrete blocks. All units shall incorporate a mechanism or devices that will develop a mechanical connection between vertical block layers. Units that are cracked, chipped or have other imperfections in accordance to ASTM C1372 or excessive efflorescence shall not be used within the wall. A single block type and style shall be used throughout each wall. The color and surface texture of the block shall be as given on the plan, or chosen by the engineer.

The top course of facing units shall be a solid precast concrete unit designed to be compatible with the remainder of the wall. The finishing course shall be bonded to the underlying facing units with a durable, high strength, flexible adhesive compound compatible with the block material. A formed cast-in-place concrete cap may also be used to finish the wall. A cap of this type shall be designed to have texture, color, and an appearance that complements the remainder of the wall. The vertical dimension of the cap shall not be less than 3½ inches. Expansion joints shall be placed in the cap to correspond with each 24-inch change in vertical wall height or at a maximum spacing of 10 feet. Concrete for all cast-in-place caps shall be Grade A and shall conform to the requirements of standard spec 501.3.

Block dimensions may vary no more than ±1/8 inch from the standard values published by the manufacturer, in accordance to ASTM C1372. Blocks must have a minimum depth (front face to back face) of 8 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. Also the minimum allowed thickness of any other portion of the block is 2 inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

Cementitious materials and aggregates for modular blocks shall conform to the requirements of ASTM C1372 section 4.1 and 4.2. Modular blocks shall meet the following requirements:

Test	Method	Requirement
Compressive Strength (psi)	ASTM C140	5000 min.
Water Absorption (%)	ASTM C140	6 max.
Freeze-Thaw Loss (%)	ASTM C1262 ⁽¹⁾	
40 cycles, 5 of 5 samples		1.0 max. ⁽²⁾
50 cycles, 4 of 5 samples		1.5 max. ⁽²⁾
⁽¹⁾ Test shall be run using a 3% saline solution.		
⁽²⁾ Test results that meet either of the listed requirements for Freeze-Thaw Loss are acceptable.		

All blocks shall be certified as to strength, absorption, and freeze-thaw requirements unless, due to contract changes after letting, certified blocks are not available when required. At the time of delivery of the certified blocks, furnish the engineer a certified test report from a department-approved independent testing laboratory for each lot of modular blocks. The certified test report shall clearly identify the firm conducted the sampling and testing, the type of block, the date sampled, name of the person conducting the sampling, the represented lot, the number of blocks in the lot, and the specific test results for each of the stated requirements of this specification. A lot shall not exceed 5000 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 the contractor's expense.

A department-approved independent testing laboratory shall control and conduct all modular block sampling and testing for certification. Prior to sampling, the manufacturer's representative shall identify all pallets of modular blocks contained in each lot. All pallets of blocks within the lot shall be numbered and marked to facilitate random sample selection. The representative of the independent testing laboratory shall identify five pallets of blocks by random numbers and shall then select one block from each of these pallets. Solid blocks used as a finishing or top course shall not be selected. The selected blocks shall remain under the control of the person who conducted the sampling until shipped or delivered to the testing laboratory. All pallets of blocks within a lot shall be strapped or wrapped to secure the contents and tagged or marked for identification. The engineer will reject any pallet of blocks delivered to the project without intact security measures. The contractor shall remove all rejected blocks from the project at no expense to the department.

The department may conduct testing of certified or non-certified modular blocks lots delivered to the project. The department will not do freeze-thaw testing on blocks less than 45 days old. If a random sample of five blocks of any lot tested by the department fails to meet any of the requirements of this specification (nonconforming), the contractor shall

remove from the project site all blocks from the failed lot that have not been installed in the finished work, at no cost to the department, unless the engineer allows otherwise. Nonconforming blocks installed in the finished work will be considered approved by the department as stated in standard spec 106.5(2) and any adjustment to the contract price will not exceed the price of the blocks charged by the supplier.

B.3.3 Leveling Pad

For all walls over 5 feet tall measured from the top of the leveling pad to the top of the wall, the wall leveling pad shall consist of a poured concrete masonry pad made from Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for class II concrete as specified in standard spec 716. The depth of the leveling pad shall be as shown on the plans or 6-inches minimum. The leveling pad shall be as wide as the blocks plus 6-inches. Six inches of leveling pad shall extend beyond the front face of the blocks. The bottom of the blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad. A concrete leveling pad shall be used for the entire length of the wall. All walls with a Structure Number assigned (such as R-XX-XXX) shall be built using the concrete leveling pad given above. The leveling pad shall step to follow the general slope of the ground line. The leveling pads steps shall keep the bottom of the wall within one block's thickness of the minimum embedment, i.e. minimum embedment plus up to the thickness of one block. Additional embedment may be detailed but will not be measured for payment.

On walls less than or equal to 5 feet in height without a wall number assigned, a compacted leveling pad made from base aggregate dense 1¼ inch as given in standard spec 305 may be used. The depth of the aggregate leveling pad shall be as shown on the plans or 12-inches minimum. The aggregate leveling pad shall be as wide as the blocks plus 12 inches with 12 inches of pad extending beyond the front face of the wall.

C Construction

C.1 General

Construct the modular block gravity wall in accordance to the manufacturer's instructions, at the locations and to the dimensions shown on the plan and as directed by the engineer. 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 front face of the wall.

Place materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth. Backfilling shall closely follow erection of each course of wall facing units.

Compact each layer of wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units. At no expense to the department, correct any such damage or misalignment as directed by the engineer.

Do not operate tracked or wheeled equipment within 3 feet of the back face of the blocks. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the wall facing units.

After construction of the wall, restore the surrounding area located above and below all precast block retaining wall sites to its original condition and to the finished details on the plans.

C.2 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. The allowable soil bearing capacity is given on the plan. After completion of excavation, the department's Regional Soils Engineer will inspect the site and determine if the foundation is adequate for the intended loads. Allow the region's Soils Engineer two working days to perform the inspection.

D Measurement

The department will measure Wall Modular Block Gravity in area by the square foot of face on a vertical plane between the top of the leveling pad and a line indicating the top of wall including wall cap or copings as required and shown on the plans. Unless directed by the engineer, wall area constructed above or below these limits will not be measured for payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
532.0200.S	Wall Modular Block Gravity	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of surplus materials; supplying all necessary wall components to produce a functional system including cap and copings; constructing the retaining system; providing backfill, backfilling, and compacting the backfill; and furnishing and installing geotextile fabric. Parapets, railings, and other items above the wall cap or coping will be paid for separately.

Any required topsoil, fertilizer, seeding or sodding and mulch will be paid for at the contract unit price of topsoil, fertilizer, seeding or sodding and mulch, respectively.
532-030 (20120615)

42. Cover Plates Temporary, Item 611.8120.S.

A Description

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

B Materials

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

C (Vacant)**D Measurement**

The department will measure Cover Plates Temporary as units, acceptably completed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	Each

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

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

611-006 (20030820)

43. Pipe Grates, Item 611.9800.S.**A Description**

This special provision describes furnishing and installing pipe grates on the ends of pipes as shown in the plans, and as hereinafter provided.

B Materials

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

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction

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

D Measurement

The department will measure Pipe Grates in units of work, where one unit is one grate, completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.9800.S	Pipe Grates	Each

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

611-010 (20030820)

44. Fence Safety, Item 616.0700.S.**A Description**

This special provision describes furnishing and installing a plastic fence at locations shown on the plans and as hereinafter provided.

B Materials

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

Furnish fence fabric meeting the following requirements.

Color:	International orange (UV stabilized)
Roll Height:	4 feet
Mesh Opening:	1 inch min to 3 inch max
Resin/Construction:	High density polyethylene mesh
Service Temperature:	-60° F to 200° (ASTM D648)
Tensile Yield:	Avg. 2000 lb per 4 ft. width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3000 lb per 4 ft. width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

C Construction

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

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

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

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

616-030 (20070510)

45. Traffic Signals.

General Provisions for Traffic Signals

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

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

All traffic signal work shall be in accordance to the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, current online version, and these plans and specifications.

Note that failure to comply with the state standards and specifications may result in the cost of the corrections to be made at the contractors expense.

46. Temporary Traffic Signals.

Temporary traffic signals are required at four intersections outlined below.

USH 14 / CTH P Intersection

This installation is operational upon completion of roadway improvements under Project 5310-02-74 that are tied to this contract. Assume and maintain operation of the signal beginning March 15, 2015 when the responsibility for the signal under a separate let contract is released. Staging operations require the adjustment of the signal heads and sequence of operations as defined in the plans. Remove the temporary signal when no longer required.

CTH P / Bourbon Road

This signal previously installed shall become fully operational prior to detouring USH 14 for any stage. Assume and maintain operation of the signal beginning March 15, 2015

when the responsibility for the signal under a separate let contract is released. Remove the temporary signal when no longer required.

Hillebrand Drive / Bourbon Road

This signal previously installed shall become fully operational prior to detouring USH 14 for any stage. Assume and maintain operation of the signal beginning March 15, 2015 when the responsibility for the signal under a separate let contract is released. Remove the temporary signal when no longer required.

CTH KP / Bourbon Road

This signal previously installed shall become fully operational prior to detouring USH 14 for any stage. Assume and maintain operation of the signal beginning March 15, 2015 when the responsibility for the signal under a separate let contract is released. Remove the temporary signal when no longer required.

47. Traffic Signal Color.

In addition to complying with standard spec 657.3.5, the traffic signal equipment defined below shall be black in color. The equipment shall be colored black by the manufacturer and shall be delivered to the installing contractor/project already colored black.

- Poles
- Signal standards
- Trombone arms
- Luminaire arms
- Transformer bases
- Pedestal bases

Powder Coating – Color: Black

Surface preparation - the exterior steel surface shall be blast cleaned to Steel Structures Painting Council surface preparation specification no. 6 (SSPC-SP6) requirements utilizing cast steel abrasives conforming to the Society of Automotive Engineers (SAE) recommended practice J827. The blast method used is a recirculating, closed cycle centrifugal wheel system with abrasive conforming to SAE shot number S280.

Interior coating – Interior surfaces (pole shafts only) at the base end for a length of approximately 2.0' shall be mechanically cleaned and coated with a zinc rich epoxy powder. The coating shall be electrostatically applied and cured in a gas fired convection oven by heating the steel substrate to a minimum of 350 degrees Fahrenheit and a maximum of 400 degrees Fahrenheit.

Exterior coating – all exterior surfaces shall be coated with a urethane or triglycidyl isocyanurate (TCIC) polyester powder to a minimum film thickness of 2.0 mils (0.002"). the coating shall be electrostatically applied and cured in a gas fired convection oven by heating the steel substrate to a minimum of 350 degrees Fahrenheit and a maximum of

400 degrees Fahrenheit. The thermosetting power resin shall provide both intercoat as well as substrate fusion adhesion that meets 5A or 5B classifications of ASTM D3359.

Combination coating galvanized- Powder top coat color: Black

Surface preparation – prior to being incorporated into an assembled product, steel plates $\frac{3}{4}$ inches or more in thickness shall be blast cleaned when required to remove rolled-in mill scale, impurities and non-metallic foreign materials. After assembly all weld flux shall be mechanically removed. The iron or steel product shall be degreased by immersion in an agitated 4.5%- 6.0% concentrated caustic solution elevated to a temperature ranging from 150 degrees to 190 degrees Fahrenheit. It shall then be pickled by immersion in a circulating fresh water bath. Final preparation shall be accomplished by immersion in concentrated zinc ammonium chloride flux solution heated to 130 degrees Fahrenheit. The solution's acidity content shall be maintained between 4.5-5.0 PH. The assembly shall be air dried to remove any moisture remaining in the flux coat and/or trapped within the product.

Zinc coating – the product shall be hot-dip galvanized to the requirements of either ASTM A123 (fabricated products) or ASTM A153 (hardware items) by immersion in a molten bath of prime western grade zinc maintained between 810 to 850 degrees Fahrenheit. The entire product shall be totally immersed with no part of it protruding out of the zinc (no double dipping). Maximum aluminum content of the bath shall be 0.01%. Flux ash shall be skimmed from the bath surface prior to immersion and extraction of the product to assure a debris free zinc coating.

Exterior coating – all galvanized exterior surfaces shall be coated with a urethane or triglycidyl isocyanurate (TGIC) polyester powder to a minimum film thickness of 2.0 mils (0.002"). Prior to application, the surfaces to be powder coated shall be mechanically etched by brush blasting (ref. SSPC-SP7) and the zinc coated substrate preheated to 450 degrees for a minimum of one hour in a gas fired convection oven, the coating shall be electrostatically applied and cured in a gas fired convection oven by heating the zinc coated substrate to a minimum of 350 degrees Fahrenheit and a maximum of 400 degrees Fahrenheit. The thermosetting powder resin shall provide both intercoat as well as substrate fusion adhesion that meets 5A or 5B classification of ASTM D3359.

48. Select Backfill, Item SPV.0035.01.

A Description

This special provision describes furnishing and placing Select Backfill in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Select Backfill by the cubic yard, 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.0035.01	Select Backfill	CY

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

49. Coloring Concrete Tan, Item SPV.0035.02.**A Description**

This special provision describes furnishing and placing concrete coloring in accordance to standard spec 405.

B (Vacant)**C Construction**

Comply with standard spec 405 and 602. Provide integral coloring of the concrete with the color to be Federal Standard 595 Color FS 30324. Prior to placement of the concrete, gain approval of the color from:

Matt Schuenke
Village Administrator
2417 Brewery Road
Cross Plains, WI
Phone: (608) 798-3241 Ext. 105
Email: Matt@cross-plains.wi.us

D Measurement

The department will measure Coloring Concrete Tan 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 the engineer accepts as required under standard spec 405.3.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.02	Coloring Concrete Tan	CY

Payment for bid items under this section is full compensation for developing mix designs and providing sample panels or test slabs; for furnishing pigments; for special construction procedures required under 405.3; for removing test slabs, restoring the site, and disposing of waste material; and for other costs not included in associated contract bid items.

50. Seismograph Special, Item SPV.0045.01.

A Description

Furnish a seismograph and employ trained operators to monitor building vibration while vibration producing construction is occurring nearby.

B Materials

Use seismographs that are in accordance to SPS 307.43, and are continuous data recorders supplied with all the accessories necessary for making seismograph observations.

C Construction

Monitoring procedures shall be in accordance to SPS 307.43, and the following: Take seismograph readings prior to construction activities to establish an ambient index.

Place the seismograph to continuously monitor all vibration producing construction activities or as direct by the engineer. Vibration producing construction activities may include compaction, excavation, backfilling and trucking as well as other activities.

If construction activities generate ground vibration in excess of the Peak Particle Velocity Limits as shown in SPS 307.43, stop the construction operations in progress and consider and implement alternate construction methods. Monitoring may be reduced at the discretion of the engineer if Peak Particle Velocity Limits are continuously less than those shown in SPS 307.43. Construction occurring in multiple areas will require multiple seismographs.

D Measurement

The department will measure Seismograph Special by the day of completed 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.0045.01	Seismograph Special	Day

Payment is full compensation for furnishing and operating a seismograph, an operator, and accessories.

51. Storm Sewer Tap, Item SPV.0060.01.

A Description

This special provision describes tapping various sized storm sewer pipes and roof drains into new and/or existing structures, including manholes, inlets or catch basins, or other pipes at locations shown on the plans.

B (Vacant)

C Construction

Tap the pipe to be flush with the interior wall of the existing pipe or structure. Mortar the tap location closed.

D Measurement

The department will measure Storm Sewer Tap by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Storm Sewer Tap	Each

Payment is full compensation for providing all materials, including saw cuts, for excavating, for mortaring the tap location, making connections to new or existing facilities, and for cleaning out.

52. Lighting Control Cabinet, SPV.0060.03.

A Description

This special provision describes the furnishing and installation of concrete-pad-mounted lighting control cabinet, for photocell (light-sensing) control of exterior street lighting as shown on the plans.

B Materials

Lighting control cabinet shall be a NEMA 4X rated, dead front, lockable enclosure with internally mounted components as shown on the plans. Control cabinet shall be Type 3060 in accordance to standard details.

Internal components shall consist of NEMA rated, 4-pole lighting contractors with 30 ampere rated contacts. Photocell shall be 120 volt, 600 watt rated photo sensor equipped with shield to limit effects of artificial light sources and a gasketed, water tight fitting of connection to side of control cabinet.

Power Load Center Panelboard: 20-circuit, 20 position,(minimum), 120/240V, single phase, 20 amp circuit breakers, 200A copper bus with 200A main breaker, with ground bar, suitable for utility service application. Provide hinged cover for this Load Center. No tandem breakers allowed. Panel shall be manufactured by Square D, Cutler Hammer or Siemens.

Photo control: Integrated photo control with test switch per cabinet manufacturer specifications.

Internal GFI Receptacle: Provide an internal GFI receptacle for convenience use.

Termination Blocks: Provide termination blocks to accept wire sizes as shown on the drawings.

Contactors: Four-pole, 30 amp rated, electrically held contacts, that contain no mercury.

Selector switches: On (manual on), off (control off), automatic (lighting controlled via photocell).

Unit shall also include miscellaneous wiring, terminal blocks, switches, and connectors required to implement control system shown on the drawings.

C Construction

Control panel assembly shall comply with the plans and details as well as with applicable codes and standards. Control equipment shall be entirely enclosed in DOT-standard rainproof padmounted cabinet. Photocontrol sensor shall be mounted on north side of cabinet or pedestal.

D Measurement

The department will measure Lighting Control Cabinet as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Lighting Control Cabinet	Each

Payment for Lighting Control Cabinet is full compensation for the complete assembly and installation of the entire lighting control cabinet and control panel assembly including load center, breakers, lighting contactors, photocontrol, selector switches, pilot lights, wiring, and any other required relays, terminations or other materials and accessories. This shall include electrical components, wiring, and incidentals necessary to complete the installation.

53. Decorative Lighting Assembly LM-SA, Item SPV.0060.04; LM-SB, Item SPV.0060.05, LM-SC, Item SPV.0060.06; LM-DA, Item SPV.0060.07.

A Description

This special provision describes the 24-foot to 28-foot decorative luminaire and pole assembly and installation and includes the pole, luminaire, festoon receptacle and associated appurtenances. Luminaire and pole assembly manufactured by Sternberg Lighting; contact Dustin Blotz with Enterprise Lighting at (608) 354-1540.

B Materials

Fixture: Sternberg Lighting model: 1914LEDF/SG/RLM431/33L45-MDL10/HS-H/BK for assembly types SA, SB and DA. Provide fixture model 1914LEDF/SG/RLM431/21L45-MDL10/HS-H/BK for assembly types SC.

Description:

- Fixtures shall be pendant type fixtures with an acrylic tear drop and with 31" RLM style shade.
- Fixtures shall be provided with a field adjustable leveling device which shall mount the fixture to the arm. The leveling device shall have a decorative finial.
- Fixtures shall feature high-brightness LED technology. Fixtures for assembly types SA, SB and DA shall operate at a connected load of 112W, fixtures for type SC shall operate at 76W. LED's shall be 4500K and provide a minimum of 75 CRI.
- Fixtures shall use a IESNA classification of Type 3, Testing shall be done in accordance to IESNA LM-79.
- Fixtures shall be RoHS compliant and all circuitry shall be 100% recyclable.
- Fixture and Driver shall be able to operate over a temperature range of -40-degrees F to 122-degrees F.
- Driver shall be UL Listed and come standard with short-circuit and overload protection.
- Driver shall be DC output, constant current design with a minimum efficiency of 90%, have a THD of <20% and allow for 120 – 277V input.
- Fixture shall be manufactured from of heavy-wall cast, low copper aluminum and shall be painted black.
- Fixture shall have a complete 7-year warranty.
- Fixtures shall be 100% compliant to the approved on the FINAL CONTINUOUS LIGHTING PERMIT APPLICATION (Form DT1879), available from the Wisconsin DOT.

Lighting poles shall meet the following requirements: Provide poles as manufactured by Hapco Aluminun, York Series, model number SKTB040714B for assemblies SA and SB. Model number SKTB040714A for assembly SC and model number SKTB040714D for assembly DA.

Description:

- Poles shall be provided for three different designs: Types SA and SB shall offer a 28' horizontal tenon height with a single arm. Type SC shall offer a 24' horizontal tenon. Type DA shall offer a 28' horizontal tenon height with a twin arm design.
- Poles and arms shall be from the same manufacturer and shall be manufactured from 6063-T6 aluminum.
- Pole shall have a tapered fluted design. Flute shall be 0.14"/ft. Pole wall thickness shall be 0.188. Base of the pole shall be a minimum of 8" in diameter and use an 11" – 12" bolt circle.
- Arm shall be 2" Sch. 40 Aluminum Pipe (2 3/8" O.D.) with a decorative scroll.
- Pole manufacturer shall be listed on the approved supplier list for standard DOT aluminum pole designs.
- All poles will be provided with fixed banner arms and a GFI receptacle with painted IUC. Final location of banner arms and GFI will be determined by the Village of Cross Plains.
- Poles shall feature a two-piece cast (low copper 356) aluminum base.
- Pole assemblies shall feature a lifetime structural warranty and a five-year finish warranty.
- Pole type SB shall be provided with GFI provisions but will not be installed with a GFI.

Materials shall include #12 AWG wire and associated hardware for separate branch circuits for 240V single-phase supply to luminaire and 120V single-phase supply to GFI outlet. Include wire and materials for grounding and bonding.

C Construction

Physical and electrical installations shall comply with the plans and details as well as applicable codes and standards. Poles shall not be set until concrete foundation bases have been allowed to cure for minimum of seven days. Poles shall be set true and plumb.

D Measurement

The department will measure Decorative Lighting Assembly (Type) by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Decorative Lighting Assembly, Type LM-SA	Each
SPV.0060.05	Decorative Lighting Assembly, Type LM-SB	Each
SPV.0060.06	Decorative Lighting Assembly, Type LM-SC	Each
SPV.0060.07	Decorative Lighting Assembly, Type LM-DA	Each

Payment for Decorative Lighting Assembly is full compensation for complete installation of the entire assembly. Included in this item is the entire fixture assembly including pole base, pole, luminaire, tenon, festoon receptacle, and all associated materials and labor for mounting and wiring.

54. Manhole Covers Special Solid, Item SPV.0060.09; Inlet Covers Special, Item SPV.0060.10; Inlet Covers Special Type L, Item SPV.0060.11.

A Description

This special provision describes installing manhole and inlet covers in accordance to standard spec 611.

B Materials

Provide the following:

- Manhole Covers Special Solid – Neenah Foundry R-1550-A with Type A lid
- Inlet Covers Special – Neenah Foundry R-3067
- Inlet Covers Special Type L – Neenah Foundry R-3067-L

C Construction

Install in accordance to standard spec 611.

D Measurement

The department will measure Manhole Covers Special, Inlet Covers Special and Inlet Covers Special Type L by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Manhole Covers Special Solid	Each
SPV.0060.10	Inlet Covers Special	Each
SPV.0060.11	Inlet Covers Special Type L	Each

Payment is full compensation for removing and salvaging the existing covers; and for providing new covers, including frames, grates or lids, and all other required materials and for installing and adjusting each cover. Old covers removed remain the municipality's property.

55. Street Lighting Concrete Bases, Item SPV.0060.12.

A Description

This special provision describes furnishing and installing concrete bases in the locations shown on the plans. Conform to standard spec 654 and as modified in this special provision.

B Materials

The concrete base provided under this bid item shall be the similar in design to a standard DOT Type 5 concrete base with the following modifications:

- Base shall be 22-inches in diameter instead of 20-inches in diameter.
- Base shall be 7'-6" deep instead of 5'-0" deep.
- For Steel Reinforcement, see detail sheet within the plan set for modifications and adjustments to spacing.

C (Vacant)**D Measurement**

The department will measure Street Lighting Concrete Bases as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.12	Street Lighting Concrete Bases	Each

Payment is full compensation for providing and installing all materials necessary to completely construct the concrete bases.

56. Cover Plates Permanent, Item SPV.0060.13.**A Description**

This special provision describes furnishing and installing a steel plate to permanently cover and support asphaltic pavement and traffic loading at inlets.

B Materials

Provide a 0.75-inch minimum thickness steel plate that extends beyond the outside edge of the opening in the existing masonry. The plate shall overlap the opening by six inches.

Provide four 0.75-inch masonry anchors at the corners of the plate to hold the plate in the permanent position. Set the plate in a bed of mortar or provide a waterproof butyl sealant conforming to ASTM C-990.

C (Vacant)**D Measurement**

The department will measure Cover Plates Permanent by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.13	Cover Plates Permanent	Each

Payment is full compensation for furnishing and installing the cover plates and providing sealant and anchor bolts.

57. Leopold Bench, Item SPV.0060.14.

A Description

The work under this item shall consist of furnishing a wooden bench constructed of treated lumber as shown in the plans.

B Materials

Provide treated lumber and hardware materials in accordance to standard spec 507.

C Construction

Construct the bench in accordance to the plan detail.

Contact the Wisconsin Department of Natural Resources to pick up the assembled bench.

Kurt Welke
Dane County Fisheries Manager
(608) 273-5946
Kurt.welke@wisconsin.gov

Installation of the bench is not required under this contract.

D Measurement

The department will measure Leopold Bench by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Leopold Bench	Each

Payment is full compensation for furnishing all materials, construction, assembly, and delivery of the bench.

58. Boot Brush, Item SPV.0060.15.

A Description

The work under this item shall consist of furnishing a boot brush constructed of weather resistant materials.

B Materials

Provide a boot brush with flip up brushes and a scraping blade. The brushes shall consist of polypropylene bristles and a steel frame. The bristle block shall be constructed of hard wood or resin material and shall be a replaceable unit.

C Construction

Contact the Wisconsin Department of Natural Resources to pick up the boot brush.

Kurt Welke
Dane County Fisheries Manager
(608) 273-5946
Kurt.welke@wisconsin.gov

Installation of the boot brush is not required under this contract.

D Measurement

The department will measure Boot Brush by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.15	Boot Brush	Each

Payment is full compensation for furnishing all materials, and delivery of the brush.

59. Existing Sanitary Sewer Connections, Item SPV.0060.17.**A Description**

This special provision describes furnishing and installing Existing Sanitary Sewer Connections in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)**C (Vacant)****D Measurement**

The department will measure Existing Sanitary Sewer Connections as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.17	Existing Sanitary Sewer Connections	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

60. Sanitary Service Lateral Wyes 18-Inch X 8-Inch, Item SPV.0060.16; 18-Inch X 6-Inch, Item SPV.0060.18; 15-Inch X 6-Inch, Item SPV.0060.48; 12-Inch X 6-Inch, Item SPV.0060.49; 8-Inch X 6-Inch, Item SPV.0060.50.

A Description

This special provision describes furnishing and installing Sanitary Service Lateral Wyes in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Service Lateral Wyes (Size) as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.16	Sanitary Service Lateral Wyes 18-Inch X 8-Inch	Each
SPV.0060.18	Sanitary Service Lateral Wyes 18-Inch X 6-Inch	Each
SPV.0060.48	Sanitary Service Lateral Wyes 15-Inch X 6-Inch	Each
SPV.0060.49	Sanitary Service Lateral Wyes 12-Inch X 6-Inch	Each
SPV.0060.50	Sanitary Service Lateral Wyes 8-Inch X 6-Inch	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

61. Sanitary Service Lateral Caps, Item SPV.0060.19; Sanitary Service Lateral Connections, Item SPV.0060.20.

A Description

This special provision describes furnishing and installing Sanitary Service Lateral Caps and Connections in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Service Lateral Caps and Sanitary Service Lateral Connections as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.19	Sanitary Service Lateral Caps	Each
SPV.0060.20	Sanitary Service Lateral Connections	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

62. Sanitary Sewer Lateral Tracing Systems, Item SPV.0060.21.

A Description

This special provision describes furnishing and installing Sanitary Sewer Lateral Tracing Systems in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Sewer Lateral Tracing Systems as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Sanitary Sewer Lateral Tracing Systems	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

63. Sanitary Manhole Removal, Item SPV.0060.22.

A Description

This special provision describes Sanitary Manhole Removal in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Manhole Removal as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.22	Sanitary Manhole Removal	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

64. Sanitary Manhole Castings, Item SPV.0060.23; Sanitary Manhole Chimney Seals, External, Item SPV.0060.24.

A Description

This special provision describes furnishing and installing Sanitary Manhole Castings and Sanitary Manhole Chimney Seals in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Manhole Castings and Sanitary Manhole Chimney Seals as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.23	Sanitary Manhole Castings	Each
SPV.0060.24	Sanitary Manhole Chimney Seals, External	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

65. Water Main Offset 12-Inch Under Brewery Creek, Item SPV.0060.25; Water Main Offset 12-Inch Under Enchanted Valley Drainageway Box Culvert, Item SPV.0060.56.

A Description

This special provision describes furnishing and installing Water Main Offsets in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Water Main Offsets (Location) as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Water Main Offset 12-Inch Under Brewery Creek	Each
SPV.0060.56	Water Main Offset 12-Inch Under Enchanted Valley Drainageway Box Culvert	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

66. Water Main Insulation, Item SPV.0060.26.

A Description

This special provision describes furnishing and installing Water Main Insulation in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Water Main Insulation as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Water Main Insulation	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

67. Existing Water Main Connections, Item SPV.0060.27.

A Description

This special provision describes furnishing and installing Existing Water Main Connections in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Existing Water Main Connections as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.27	Existing Water Main Connections	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

68. Gate Valves and Boxes 12-Inch, Item SPV.0060.28; 8-Inch, Item SPV.0060.29; 6-Inch, Item SPV.0060.30; 4-Inch, Item SPV.0060.31.

A Description

This special provision describes furnishing and installing Gate Valves and Boxes in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Gate Valves and Boxes (Size) as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.28	Gate Valves and Boxes 12-Inch	Each
SPV.0060.29	Gate Valves and Boxes 8-Inch	Each
SPV.0060.30	Gate Valves and Boxes 6-Inch	Each
SPV.0060.31	Gate Valves and Boxes 4-Inch	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

69. Abandon Gate Valves and Boxes, Item SPV.0060.32; Existing Hydrant Removals, Item SPV.0060.33.

A Description

This special provision describes Abandoning Gate Valves and Boxes and Existing Hydrant Removals in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Abandoning Gate Valves and Boxes and Existing Hydrant Removals as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.32	Abandon Gate Valves and Boxes	Each
SPV.0060.33	Existing Hydrant Removals	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

70. New Hydrants, Item SPV.0060.34.**A Description**

This special provision describes furnishing and installing New Hydrants in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)**C (Vacant)****D Measurement**

The department will measure New Hydrants as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.34	New Hydrants	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

71. Corporation Stops 1-Inch, Item SPV.0060.35; Corporation Stops 2-Inch, Item SPV.0060.36; Curb Stops 1-Inch, Item SPV.0060.37; Curb Stops 2-Inch, Item SPV.0060.38.**A Description**

This special provision describes furnishing and installing Corporation Stops and Curb Stops in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Corporation Stops (Size) and Curb Stops (Size) as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.35	Corporation Stops 1-Inch	Each
SPV.0060.36	Corporation Stops 2-Inch	Each
SPV.0060.37	Curb Stops 1-Inch	Each
SPV.0060.38	Curb Stops 2-Inch	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

72. Water Service Lateral Reconnections, Item SPV.0060.39.

A Description

This special provision describes furnishing and installing Water Service Lateral Reconnections in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Water Service Lateral Reconnections as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.39	Water Service Lateral Reconnections	Each

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

73. Traffic Signal Preempt Intersection of USH 14/Brewery Road, Item SPV.0060.45; Traffic Signal Preempt Intersection of USH 14/CTH P, Item SPV.0060.46.

A Description

This work shall consist of furnishing and installing Opticom brand optical signal preempt equipment for the signalized intersection.

B Materials

Furnish the following:

- Model 454 discriminator for one signal intersection, one total.
- Model 711 detectors, four total.
- Model 760 card rack for each intersection, one total.
- Model 138 detector cable as necessary.
- Cables and auxiliary equipment as necessary for a complete operating system.

C Construction

Detectors shall be installed on the top horizontal member of signal trombone arms or monotube arms when available, three feet inboard from the signal head. When trombone arms are not available, the detectors shall be installed on the side of streetlight poles, 22 feet from bottom of pole. The detectors will be on the far side of the intersection, and shall be aimed at approaching traffic. Detector cable shall be installed from the detector to the control cabinet at each intersection, using the shortest path. All installation methods shall be consistent with the manufacturer's instructions.

D Measurement

The department will measure Traffic Signal Preempt (Intersection) by each individual installation, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.45	Traffic Signal Preempt Intersection of USH 14/Brewery Road	Each
SPV.0060.46	Traffic Signal Preempt Intersection of USH 14/CTH P	Each

Payment is full compensation for furnishing, delivering and installing detectors and cable, discriminators, card racks, cables and miscellaneous materials.

74. Temporary Curb Ramp, Item SPV.0060.51.

A Description

This special provision describes providing, maintaining, moving, and removing temporary curb ramps where the plans show or engineer directs.

B Materials

Provide either asphalt or concrete conforming to the standard specifications.

For asphalt provide materials in accordance to standard spec 465.2.

For concrete provide materials in accordance to standard spec 602.2(2).

No QMP will be required for this work.

Furnish yellow cast iron detectable warning fields from the department's approved products list.

Furnish yellow surface applied detectable warning fields from the following manufacturers:

- ADA Solutions, Inc.
- Alert Tile
- Armor Tile

Cast iron detectable warning fields are not considered surface applied.

Furnish surface applied detectable warning fields in accordance to the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and having a minimum slip resistance coefficient of 0.80 wet and dry. Maintain the minimum slip resistance throughout construction. Provide a certification of the slip resistance to the engineer for approval prior to installation. The certification shall include the anticipated duration the slip resistance can be maintained under normal use conditions.

Test the slip resistance of the surface applied detectable warning fields in accordance to ASTM F 609-05 and AASHTO Draft T4-33 Part 9 as directed by the engineer throughout construction.

C Construction

For asphalt temporary curb ramps, construct in accordance to standard spec 465.3.1. For concrete temporary curb ramps, construct in accordance to standard spec 602.3.2.

Provide detectable warning field, curbing, grading and restoration for temporary curb ramps conforming to the plan details for permanent curb ramps. Match the width of the facility leading to the curb ramp. Conform to the requirements of the detectable warning field manufacturer and the current ADAAG.

Reconstruct or move temporary curb ramps if required for work operations. Maintain the temporary curb ramps including the detectable warning field, throughout the duration of the project to be compliant with the ADAAG and the manufacturer's specifications.

Construct temporary curb ramps with concrete and a cast iron detectable warning field when the temporary curb ramp and warning field will remain during and throughout the winter traffic pattern as provided in the construction staging plans or when the temporary curb ramp is used when snow is expected.

Construct temporary curb ramps with asphalt and a surface applied detectable warning field, or concrete and a cast iron detectable warning field for other temporary curb ramp locations in use when snow is not expected.

Remove temporary curb ramps and associated detectable warning fields as the staging plans provides or the engineer directs.

D Measurement

The department will measure Temporary Curb Ramp as each individual temporary curb 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
SPV.0060.51	Temporary Curb Ramp	Each

Payment is full compensation for excavation and preparing the foundation; providing all materials including concrete or asphalt; maintaining, moving, reconstructing, removing temporary curb ramps, and restoring the site; and for cast iron or surface applied detectable warning fields.

75. Construction Staking Curb Ramp, Item SPV.0060.52.

A Description

Preform work in accordance to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set additional construction stakes as necessary to establish location and grade of the curb ramp including points of change in alignment and grade in accordance to the plans, standard details for curb ramps, and for conformance with ADAAG. Locate stakes to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

D Measurement

The department will measure Construction Staking Curb Ramp as each individual construction staking curb 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
SPV.0060.52	Construction Staking Curb Ramp	Each

Payment is full compensation for locating and setting all construction stakes and for relocating and resetting damaged or missing construction stakes.

76. Adjusting Monitoring Well, Item SPV.0060.53.**A Description**

This special provision describes adjusting, protecting, and maintaining accessibility, for the duration of the project, to monitoring wells located within the project limits.

B (Vacant)**C Construction**

Adjust all monitoring wells to the proposed elevations at locations shown in the plans. Provide a one week notice to the engineer prior to excavation near monitoring wells.

Throughout the duration of the project, ensure the monitoring wells are adequately located and identified, and remain accessible for operation. Exercise caution working adjacent to monitoring wells to avoid damage. Damage to the well resulting from the contractor's operations will not be compensated and must be repaired by the contractor at their own expense.

Remove the surrounding pavement materials without damaging the well cover. Adjust the PVC pipe as required to conform with the proposed grades. Reattach the PVC cap to the PVC pipe with compatible couplings.

D Measurement

The department will measure Adjusting Monitoring Well as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.53	Adjusting Monitoring Well	Each

Payment is full compensation for adjusting monitoring wells, for furnishing all excavation, backfilling, disposal of surplus materials, and monitoring well clean out.

77. Crack and Damage Survey, Item SPV.0060.54.

A Description

This special provision describes conducting a crack and damage survey of the residences and business located along the USH 14 corridor at locations identified below:

Name	Street Address
Monk's Retreat	1118 Main Street
Coach's Club	1200 Main Street
Residence	1206 Main Street
Main Street Lanes	1721 Main Street
Salon Fido	1807 Main Street
Shelton's	1821 Main Street
True Value	1816 Main Street
Kurt's on Main	1902 Main Street
Residence	1909 Main Street
Residence	2100 American Legion Drive
Cross Plains Pharmacy	1910 Main Street
Tanos Pizza	1910 Main Street
Residence	2004 Main Street
Residence	2104 Main Street
The Finishing Touch	2009 Main Street
Residence	2017 Main Street
Residence	2023 Main Street
Residence	2031 Main Street
Residence	2039 Main Street
Main Street Square	2020 Main Street
Ice Age Trail Alliance	2110 Main Street
Moretti Law Office	2305 Main Street

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

B (Vacant)

C Construction

Prior to any construction activities, thoroughly inspect the building structures for existing defects, including interior and exterior walls. Submit a written report of the inspector's name, date of inspection, descriptions and locations of defects, and photographs. The intent of the written report and photographs is to procure a record of the general physical condition of the building's interior and exterior walls and foundation. The report shall be typed on bond paper and be in text form.

The photographs shall be taken by a professional photographer capable of producing sharp, grain free, high-contrast colored pictures with good shadow details. The photographs shall be 3½ inch by 5 inch color prints, glossy, and mounted in protective storage pages with clear slip-in pockets and clear background. Each sheet shall hold four prints. The back of each photograph shall contain the following information:

ID _____
Building Location _____
View looking _____
Date _____
Photographer _____

Prior to the start of any construction activities pertinent to this survey, submit a copy of the written report and photographs to the engineer.

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

In lieu of photographs, a professional videographer may be hired to use a video camera capable of producing a video with the clarity required to perform this work.

D Measurement

The department will measure Crack and Damage Survey Special by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.54	Crack and Damage Survey Special	Each

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

78. Tree Trimming, Item SPV.0060.55.

A Description

This special provision describes removing select branches and limbs from trees overhanging the roadway and work zone.

B (Vacant)

C Construction

Based on the working limits of equipment proposed to be used in the work zone, identify limbs and branches that should be removed to avoid damage to the existing tree. Inform the engineer and property owner of the need to remove branches. Provide a certified arborist to remove branches identified as needing removal for the operation of required equipment.

D Measurement

The department will measure Tree Trimming as each individual unit, acceptably completed. The measurement of each applies to the individual tree, not the individual branch.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.55	Tree Trimming	Each

Payment is full compensation for removing limbs, for furnishing all equipment, and disposal of materials.

79. Salvage and Reinstall Landscaping Materials, Item SPV.0060.57.**A Description**

This special provision describes salvaging and reinstalling existing landscaping stone and mulch from residential and commercial properties within the temporary limited easements.

B Materials

Utilize and supplement existing materials as needed.

C Construction

Salvage the existing landscaping mulch and stone from beds to be disturbed within the temporary limited easements and fee acquisition. Store the material within the easement or other suitable location. Reinstall the materials when grading is complete behind the back of sidewalk or pedestrian curb. Place the material in the same general area from where it was salvaged. Provide similar supplementary materials as needed.

D Measurement

The department will measure Salvage and Reinstall Landscaping Materials as each individual unit, acceptably completed. The measurement of each applies to the individual property, not the individual landscape bed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.57	Salvage and Reinstall Landscaping Materials	Each

Payment is full compensation for removing salvaging and storing materials, for furnishing all equipment, for supplemental mulch and stone, and disposal of materials.

80. Bar Steel Reinforcement HS Stainless Bridges, Item SPV.0085.01.

A Description

This work consists of furnishing and placing stainless steel reinforcing bars as shown in the plans and as hereinafter provided.

B Materials

B.1 General

Conform to standard spec 505.2 except as modified in this special provision.

B.2 Grade and Type

The material shall conform to ASTM A 955 and to one of the following Unified Numbering System (UNS) designations: S31653, S31803, S32205, or S32304.

Supply Grade 60 bars, all of the same UNS designation.

B.3 Evaluation of Corrosion Resistance

Prior to fabrication, supply test results from an independent testing agency certifying that stainless steel reinforcement from the selected UNS designation meets the requirements of Annex A1 of ASTM A955. Corrosion performance for the selected UNS designation shall be redemonstrated if the processing method is significantly altered. Removal of mill scale or pickling processes used for stainless steel reinforcement supplied under this contract shall be the same as those used to prepare the samples tested per Annex A1 of ASTM A955.

B.4 Chemical Composition

Material shall conform to that specified in ASTM A276, Table 1, Chemical Requirements, for the given UNS designation.

B.5 Heat Treatment

Bars may be furnished in one of the heat treatment conditions listed in ASTM A955, and as needed to meet the requirements of this specification.

B.6 Finish

Supply bars that are free of dirt, mill scale, oil and debris by pickling to a bright or uniform light finish. Bars supplied with a tarnished or mottled finish are sufficient cause for rejection. Fabricate and bend bars using equipment that has been thoroughly cleaned or otherwise modified to prohibit contamination of the stainless steel from fragments of carbon steel or other contaminants.

Bars displaying rust/oxidation, questionable blemishes, or lack of a bright or uniform pickled surface are subject to rejection.

B.7 Bending and Cutting

Bend bars in accordance to standard spec 505.3.2 and ASTM A955. Use fabrication equipment and tools that will not contaminate the stainless steel with black iron particles.

To prevent such contamination, equipment and tools used for fabrication, including bending and cutting, shall be solely used for working with stainless steel. Do not use carbon steel tools, chains, slings, etc. when fabricating or handling stainless steel reinforcing bars.

B.8 Control of Material

All reinforcement bars or bar bundles delivered to the project site shall be clearly identified with tags bearing the identification symbols used in the Plans. The tags shall also include the UNS designation, heat treat condition, heat number, grade (corresponding to minimum yield strength level), and sufficient identification to track each bar bundle to the appropriate Mill Test Report.

Provide samples for department testing and acceptance in accordance to the CMM requirements for Concrete Masonry Reinforcement – Bar Steel (Uncoated).

Provide Mill Test Reports (MTR) for the project that:

- Are from the supplying mill verifying that the stainless reinforcement provided has been sampled and tested and the test results meet ASTM A 955, ASTM A 276, Table 1 and the Contract requirements;
- Include a copy of the chemical analysis of the steel provided, with the UNS designation, the heat lot identification, and the source of the metal if obtained as ingots from another mill;
- Include a copy of tensile strength, yield strength and elongation tests per ASTM A955 on each of the sizes of stainless steel reinforcement provided;
- Permit positive determination that the reinforcement provided is that which the test results cover;
- Include a statement certifying that the materials meet standard spec 106 of the standard specifications regarding material being melted and manufactured in the United States; and;
- Certify that the bars have been pickled to a bright or uniform light finish.

C Construction

C.1 General

Conform to the construction methods in standard spec 505.3 of the standard specifications except as modified in this special provision:

Ship, handle, store, and place the stainless steel reinforcing bars according to the applicable provisions with the following additions and exceptions:

- Prior to shipping, ensure that all chains and steel bands will not come into direct contact with the stainless steel reinforcing bars. Place wood or other soft materials (i.e., thick cardboard) under the tie-downs. Alternatively, use nylon or polypropylene straps to secure the stainless steel reinforcing bars.
- When bundles of reinforcing steel and stainless steel reinforcing bars must be shipped one on top of the other, load the stainless steel reinforcing bars on top. Use wooden spacers to separate the two materials. Space supports sufficiently close to prevent sags in the bundles.
- Outside storage of stainless steel reinforcing bars is acceptable. Cover the stainless steel reinforcing bars with tarpaulins.
- Store stainless steel reinforcing bars off the ground or shop floor on wooden supports and separately from carbon steel reinforcement. Space supports sufficiently close to prevent sags in the bundles.
- Do not use carbon steel tools, chains, slings, etc. when fabricating or handling stainless steel reinforcing bars. Only use nylon or polypropylene slings. Protect from contamination during construction operations including any cutting, grinding, or welding above or in the vicinity of the stainless steel bars. Flame cutting or welding of stainless steel reinforcing bars is prohibited.
- Place all stainless steel reinforcing bars on bar chairs that are solid plastic or stainless steel. Fabricate stainless steel metal chairs and continuous metal stainless steel supports from stainless steel conforming to the same requirements and UNS designations as stainless steel reinforcing bar as listed in Section B, “Materials”. Use stainless steel chairs with plastic-coated feet above steel beams.

Use stainless steel tie wires to tie stainless steel reinforcing bars. Tie wires shall conform to the same requirements and UNS designations as stainless steel reinforcing bars as listed in Section B, “Materials”, dead soft annealed, annealed at size. The tie wire does not need to be of the same UNS designation as the bar reinforcement.

Do not tie stainless steel reinforcing bars to, or allow contact with uncoated reinforcing bars, galvanized forming hardware or attachments, or galvanized conduits. Direct contact with these materials is not acceptable. When stainless steel reinforcing bars or dowels must be near uncoated steel reinforcing bars, galvanized forming hardware, or other galvanized metals, maintain a minimum 1-inch clearance between the two metals. Where insufficient space exists to maintain this minimum, sleeve the bars with a continuous 1/8-inch minimum thickness polyethylene or nylon tube extending at least 1 inch in each direction past the point of closest contact between the two dissimilar bars and bind them with nylon or polypropylene cable ties. Sleeves are not required between stainless steel reinforcing bars and welded girder shear studs. Stainless steel reinforcing bars are allowed to be in direct contact with undamaged epoxy-coated reinforcing bars.

Uncoated fasteners (such as used for static safety lines on beams), anchors, lifting loops, etc., that extend from the top flange of prestressed concrete beams into the bridge deck shall be completely removed or cut off flush with the top flange of the beam prior to casting the deck.

C.2 Splices

Splices shall be as shown in the plans. Substitution of stainless steel mechanical splices in lieu of lap slices shown on the plans may be permitted in certain situations subject to written approval by the engineer. Provide mechanical splices for stainless steel reinforcing bars made of stainless steel conforming to one of the UNS designations listed in section B, "Materials" and meeting the minimum capacity, certification, proof testing and written approval requirements of standard spec 550.3.3.4.

If it is necessary or the contractor elects to increase or alter the number or type of bar splices from those indicated in the plans, provide copies of plan sheets to the engineer showing the revised reinforcement layout, type, length and location of revised bar splices and revised bar lengths. The engineer must approve the location of new lap splices or substitution of mechanical bar couplers in lieu of bar lap splices prior to fabrication. New lap splices must be at least as long as those shown in the plans.

D Measurement

The department will measure Bar Steel Reinforcement HS Stainless Bridges by the pound acceptably completed. The department will compute the stainless steel bar weight using the standard weight per foot of equivalent size carbon steel reinforcing bars (ASTM A615) regardless of which stainless steel alloy is provided.

If the contractor is permitted to alter the reinforcement layout per C.2, no adjustment to the reinforcement bar quantity will be made for such alterations. Mechanical bar couplers that are provided but not shown in the plans are included in the item Bar Steel Reinforcement HS Stainless Bridges and will not be measured separately.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.01	Bar Steel Reinforcement HS Stainless Bridges	LB

Payment is full compensation for providing, transporting and placing the stainless steel reinforcing bars with all component materials as described above.

If the contractor is permitted to alter the reinforcement layout per C.2, no additional compensation will be made for such alterations. Mechanical bar couplers that are provided, but not shown in the plans are included in the item Bar Steel Reinforcement HS Stainless Bridges and will not be paid for separately.

81. Asphalt Joint Adhesive, Item SPV.0090.01.

A Description

This special provision describes applying an asphalt joint adhesive to the longitudinal construction joint(s) in the top mat of the mainline HMA pavement.

B Materials

Provide a pavement asphalt joint adhesive per the following list or an approved equal:

- Pavement Joint Adhesive as manufactured by Crafco (420 Roosevelt Avenue, Chandler, AZ 85226).
- Road Saver 221 as manufactured by Asphalt Materials, Inc, 5400 W. 86th Street, Indianapolis, IN 46268-0123).
- AC with a 85 penetration as manufactured by Amoco Oil. Provide the engineer with a product data sheet.

C Construction

Apply the asphalt joint adhesive to the manufacture's recommended application method.

Apply the asphalt joint adhesive to the top layer longitudinal joint at the joint face. The joint face shall be dry and free of any debris that would interfere with adhesion.

D Measurement

The department will measure Asphalt Joint Adhesive by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Asphalt Joint Adhesive	LF

Payment is full compensation for providing all materials, drying and cleaning the joint, and applying the adhesive.

82. Sanitary Sewer PVC 18-Inch 13 Feet Depth Or Less, Item SPV.0090.02; 18-Inch 13 Feet Depth To 16 Feet Depth, Item SPV.0090.03; 18-Inch 16 Feet Depth Or Greater, Item SPV.0090.04; 15-Inch, Item SPV.0090.05; 12-Inch, Item SPV.0090.06; 8-Inch, Item SPV.0090.07.

A Description

This special provision describes furnishing and installing Sanitary Sewer PVC in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Sewer PVC (Type) by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Sanitary Sewer PVC 18-Inch 13 Feet Depth Or Less	LF
SPV.0090.03	Sanitary Sewer PVC 18-Inch 13 Feet Depth To 16 Feet Depth	LF
SPV.0090.04	Sanitary Sewer PVC 18-Inch 16 Feet Depth Or Greater	LF
SPV.0090.05	Sanitary Sewer PVC 15-Inch	LF
SPV.0090.06	Sanitary Sewer PVC 12-Inch	LF
SPV.0090.07	Sanitary Sewer PVC 8-Inch	LF

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

83. Steel Casing 24-Inch by Open Cut Methods, Item SPV.0090.08; Steel Casing 24-Inch by Boring, Item SPV.0090.18.

A Description

This special provision describes furnishing and installing Steel Casing in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Steel Casing (Type) by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.08	Steel Casing 24-Inch By Open Cut Methods	LF
SPV.0090.18	Steel Casing 24-Inch By Boring	LF

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

84. Water Main Ductile Iron 12-Inch, Item SPV.0090.09; 8-Inch, Item SPV.0090.10; 6-Inch, Item SPV.0090.11; 4-Inch, Item SPV.0090.12.

A Description

This special provision describes furnishing and installing Water Main Ductile Iron in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Water Main Ductile Iron (Size) by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.09	Water Main Ductile Iron 12-Inch	LF
SPV.0090.10	Water Main Ductile Iron 8-Inch	LF
SPV.0090.11	Water Main Ductile Iron 6-Inch	LF
SPV.0090.12	Water Main Ductile Iron 4-Inch	LF

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

85. Water Service Laterals 1-Inch, Item SPV.0090.13; 2-Inch, Item SPV.0090.14.

A Description

This special provision describes furnishing and installing Water Service Laterals in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Water Service Laterals (Size) by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.13	Water Service Laterals 1-Inch	LF
SPV.0090.14	Water Service Laterals 2-Inch	LF

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

86. Sanitary Service Lateral PVC 6-Inch, Item SPV.0090.15; 8-Inch, Item SPV.0090.16.

A Description

This special provision describes furnishing and installing Sanitary Service Lateral PVC in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Service Lateral PVC (Size) by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.15	Sanitary Service Lateral PVC 6-Inch	LF
SPV.0090.16	Sanitary Service Lateral PVC 8-Inch	LF

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

87. Pedestrian Safety Barrier, Item SPV.0090.17.

A Description

This special provision describes providing a pedestrian safety barrier.

B Materials

Furnish engineer-approved commercially available "T" or "U" shaped fence posts and 2 x 4 dimensional lumber. 2 x 4 lumber shall be free of significant knots and defects as approved by the engineer.

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
Service Temperature:	-60° F to 200° (ASTM D648)
Tensile Yield:	Avg. 2000 lb per 4 ft. width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3000 lb per 4 ft. width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

C Construction

Construct wooden frames as the plans show using nails or screws as fasteners.

Secure fence fabric to frame with staples. Overlap fence fabric rolls at a vertical member of the frame.

Drive fence posts to the depth the plans show. Provide a post for each vertical member of the frame.

Secure frame to fence posts as shown in the plans, with the fence fabric facing away from the pedestrian facility.

D Measurement

The department will measure Pedestrian Safety Barrier by the linear foot measured along the base of the fence, acceptably completed.

E Payment

The department will pay for Pedestrian Safety Barrier at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.17	Pedestrian Safety Barrier	LF

Payment is full compensation for providing the barrier and posts; maintaining the barrier and posts; removing and disposing of barrier and posts at staging revisions or project completion.

88. Construction Staking Sidewalk, Item SPV.0090.19.

A Description

Preform work in accordance to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set additional construction stakes as necessary to establish location and grade of the sidewalk including points of change in alignment and grade in accordance to the plans and for conformance with ADAAG. Locate stakes to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

D Measurement

The department will measure Construction Staking Sidewalk by the linear foot, acceptably completed, measured along the back edge of the sidewalk.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.19	Construction Staking Sidewalk	LF

Payment is full compensation for locating and setting all construction stakes and for relocating and resetting damaged or missing construction stakes.

89. Construction Staking Wall Modular Block Gravity, Item SPV.0090.20.

A Description

Preform work in accordance to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set additional construction stakes as necessary to establish location and grade of the retaining wall including points of change

in alignment and grade in accordance to the plans. Locate stakes to within 0.05 feet horizontally and establish the grade elevation to within 0.02 feet vertically.

D Measurement

The department will measure Construction Staking Wall Modular Block Gravity by the linear foot, acceptably completed, measured along the front face of the wall.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.20	Construction Staking Wall Modular Block Gravity	LF

Payment is full compensation for locating and setting all construction stakes and for relocating and resetting damaged or missing construction stakes.

90. Salvage Fishery Sign, Item SPV.0105.01.

A Description

This special provision describes salvaging the existing fishery sign located adjacent to the Black Earth Creek Fishery.

B Materials

Provide two 4x4-inch x 12-ft treated wood posts for the reinstallation of the sign panels.

C Construction

Remove the existing sign panels, hardware and posts. Contact the Wisconsin Department of Natural Resources to pick up the sign panels, new posts, and hardware; dispose of the existing posts.

Kurt Welke
Dane County Fisheries Manager
(608) 273-5946
Kurt.welke@wisconsin.gov

Reinstallation of the sign is not required under this contract.

D Measurement

The department will measure Salvage Fishery Sign as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Salvage Fishery Sign	LS

Payment is full compensation for furnishing new posts, disposing of existing posts, and protecting and salvaging the existing sign materials.

91. Research and Locate Existing Property Monuments, Item SPV.0105.02.

A Description

This special provision describes researching and locating existing property monuments located within permanent easement and temporary easement areas, within the construction limits that may be lost or disturbed by construction operations, as directed by the engineer, and as hereinafter provided.

This provision does not relinquish the contractor of his responsibility under standard spec 107.11.

B (Vacant)

C Construction

Prior to construction, research, locate and document the adjacent property monuments located within permanent easement and temporary easement areas. Tie the located property monuments in with coordinates accurate to 1:3000 and tied to at least two adjacent section corners that will not be disturbed by any project.

Prepare a property monument location map showing the type of monuments originally found with their coordinates. A legible tax map or right-of-way plat is acceptable as a base map for the property monument location map. Provide a copy of the property monument location map to the engineer.

All work under this item is to be performed by, or under the direction of, a land surveyor registered in the State of Wisconsin.

After construction is completed property monument locations will be verified and reset, if necessary, under the item titled "Verify and Replace Existing Property Monuments."

D Measurement

The department will measure Research and Locate Existing Property Monuments as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.02	Research and Locate Existing Property Monuments	LS

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

92. Verify and Replace Existing Property Monuments, Item SPV.0105.03.

A Description

This special provision describes verifying the location of, and replacing existing property monuments, which were previously located under the item “Research and Locate Existing Property Monuments”, that are determined to be lost or disturbed, as directed by the engineer, and as hereinafter provided.

This provision does not relinquish the contractor of his responsibility under standard spec 107.11.

B Materials

Provide replacement property monuments that are one-inch inside diameter by 24-inch long iron pipe or ¾-inch diameter iron rod or rebar that are 24 inches long in locations outside of pavement areas, a Berntsen Steel Nail Marker for placement in asphalt pavement, or a Berntsen BP1 Brass Marker with anchoring plug for placement in concrete pavement.

C Construction

After construction is completed, verify the location of all property monuments previously located under the item “Research and Locate Existing Property Monuments.” Replace or reset as necessary, any property monuments that are lost or disturbed.

Prepare a property monument location map showing the type of monuments originally found, and the type of replacement monument used to replace or reset the lost or disturbed monuments, with their coordinates. A legible tax map or right-of-way plat is acceptable as a base map for the property monument location map. The property monument location map is to explicitly state that the replaced or reset monuments are not being certified as an actual property monument, only that evidence of a property monument was found and reset. Provide a copy of the property monument location map to the engineer and the county surveyor.

All work under this item is to be performed by, or under the direction of, a land surveyor registered in the State of Wisconsin.

D Measurement

The department will measure Verify and Replace Existing Property Monuments as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.03	Verify and Replace Existing Property Monuments	LS

Payment is full compensation for furnishing all survey work necessary to verify the location of all property monuments previously located under the item "Research and Locate Existing Property Monuments"; replacing or resetting, as necessary, property monuments that are lost or disturbed from their original location; furnishing property monuments; furnishing a registered land surveyor; and for preparing, annotating and delivering the property monument location map.

93. Concrete Pavement Joint Layout, Item SPV.0105.04.**A Description**

Provide a concrete pavement joint layout design for intersections and mark the location of all joints in the field.

B (Vacant)**C Construction**

Plan and locate all points necessary to establish the horizontal position of the transverse and longitudinal joints in the concrete pavement to prevent uncontrolled cracking. Submit a joint layout design to the engineer before paving each intersection. Mark the location of all concrete pavement joints in the field. Follow the plan details for joints in concrete pavements making adjustments as required to fit field conditions.

D Measurement

The department will measure Concrete Pavement Joint Layout as a single lump sum unit of work 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
SPV.0105.04	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.

94. Timber Steps, Item SPV.0105.05.

A Description

The work under this item shall consist of furnishing and constructing timber steps of treated lumber as shown in the plans.

B Materials

Provide treated lumber and hardware materials in accordance to standard spec 507. Provide base aggregate dense in accordance to standard spec 305. Provide riprap medium in accordance to standard spec 606. All materials and grading are incidental to construction of the timber steps.

C Construction

Construct the timber steps in accordance to the plan detail. Field adjust the length of the steps without shortening the tread length.

D Measurement

The department will measure Timber Steps as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.05	Timber Steps	LS

Payment is full compensation for excavation, restoration, furnishing all materials including base aggregate and riprap, construction, and installation of the steps and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

95. Temporary Crosswalk Access (USH 14 and Water Street), Item SPV.0105.06; (USH 14 and Center Street), Item SPV.0105.07; (USH 14 and Spring Street), Item SPV.0105.08; (USH 14 and East Street), Item SPV.0105.09; (USH 14 and Maple Street), Item SPV.0105.10; (USH 14 and Hickory Street), Item SPV.0105.11; (USH 14 and Wilson Street), Item SPV.0105.12; (USH 14 and Mill Street), Item SPV.0105.13; (USH 14 and American Legion Drive), Item SPV.0105.14; (USH 14 and Caesar Street), Item SPV.0105.15; (USH 14 and Jovina Street), Item SPV.0105.16; (USH 14 and Valley Street), Item SPV.0105.17; (USH 14 and Eulalia Street), Item SPV.0105.18; (USH 14 and CTH P), Item SPV.0105.19; (USH 14 and Glaciers Edge Square), Item SPV.0105.20; (USH 14 and Brewery Road), Item SPV.0105.21.

A Description

This special provision describes maintaining accessible crosswalks crossing the construction zone. A crosswalk is defined as an accessible crossing of a single leg of an intersection, including curb ramps.

B Materials

Provide a hard temporary surface material consisting of asphaltic surface temporary according to standard spec 465.2, any grade of concrete according to standard spec 602.2, skid resistant steel plating, or alternative material as approved by the engineer. Gravel or base course material is not acceptable.

Furnish safety barrier according to the article "Pedestrian Safety Barrier."

Furnish 4-inch diameter polyvinyl chloride drainage pipe conforming to AASHTO M 278.

Furnish a protective layer for use in protecting the existing curb and gutter and existing pavement from asphaltic surface temporary in order to allow easy removal of asphaltic surface. Obtain approval from the engineer for the protective layer material.

C Construction

Maintain accessible crosswalks on existing pavement, new pavement, or temporary surface material where shown on the plans or directed by the engineer.

C.1 Crosswalk

Install, maintain, relocate (if necessary to accommodate work or operations), and remove temporary surface material at Temporary Crosswalk Access locations as shown on the plans and as directed by the engineer. Level and compact the surface prior to placing temporary surface material. The temporary crosswalk shall have a minimum clear width of 4 feet; be located outside the immediate work area, as approved by the engineer; and meet the requirements of the current Americans with Disabilities Act Accessibility Guidelines (ADAAG). Install pedestrian safety barrier along both sides of the temporary crosswalk. Provide a gap in the safety barrier as necessary to provide access for construction vehicles across the temporary crosswalk. The maximum width of the gap shall be 18 feet. Reconstruct Temporary Crosswalk Access when disturbed by construction operations or utility trenches.

D Measurement

The department will measure Temporary Crosswalk Access (Location), completed in accordance to the contract and accepted, as a single complete lump sum unit of work, and in accordance to standard spec 661.4.

The Temporary Crosswalk Access (Location) bid item includes all temporary crosswalks required throughout all stages and phases of construction for each associated intersection (location).

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.06	Temporary Crosswalk Access (USH 14 and Water Street)	LS
SPV.0105.07	Temporary Crosswalk Access (USH 14 and Center Street)	LS
SPV.0105.08	Temporary Crosswalk Access (USH 14 and Spring Street)	LS
SPV.0105.09	Temporary Crosswalk Access (USH 14 and East Street)	LS
SPV.0105.10	Temporary Crosswalk Access (USH 14 and Maple Street)	LS
SPV.0105.11	Temporary Crosswalk Access (USH 14 and Hickory Street)	LS
SPV.0105.12	Temporary Crosswalk Access (USH 14 and Wilson Street)	LS
SPV.0105.13	Temporary Crosswalk Access (USH 14 and Mill Street)	LS
SPV.0105.14	Temporary Crosswalk Access (USH 14 and American Legion Drive)	LS
SPV.0105.15	Temporary Crosswalk Access (USH 14 and Caesar Street)	LS
SPV.0105.16	Temporary Crosswalk Access (USH 14 and Jovina Street)	LS
SPV.0105.17	Temporary Crosswalk Access (USH 14 and Valley Street)	LS
SPV.0105.18	Temporary Crosswalk Access (USH 14 and Eulalia Street)	LS
SPV.0105.19	Temporary Crosswalk Access (USH 14 and CTH P)	LS
SPV.0105.20	Temporary Crosswalk Access (USH 14 and Glaciers Edge Square)	LS
SPV.0105.21	Temporary Crosswalk Access (USH 14 and Brewery Road)	LS

Payment is full compensation for furnishing, loading, and hauling materials; for preparing the foundation; for furnishing, placing, maintaining, and removing temporary surface material; for reconstructing or relaying the temporary surface material; and for Furnishing, installing, and maintaining pedestrian safety barrier.

96. Railing Steel Type C3 Galvanized B-13-799, Item SPV.0105.22.

A Description

This special provision describes fabricating, galvanizing, painting and installing railing in accordance to standard specs 506, 513 and 517 and the plan details, as directed by the engineer, and as hereinafter provided.

B Materials

All materials for railing shall be new stock, free from defects impairing strength, durability and appearance. Railing assemblies shall be galvanized and receive a two-coat paint system. Bubbles, blisters and flaking in the coating will be a basis for rejection.

B1 Coating System

B1.1 Galvanizing

After fabrication, blast clean steel railing assemblies per SSPC-SP6 and galvanize according to ASTM A123. Vent holes shall be drilled in members as required to facilitate galvanizing and drainage. Location and size of vent holes are to be shown on the shop drawings. All burrs at component edges, corners and at holes shall be removed and sharp edges chamfered before galvanizing. Condition any thermal cut edges before blast cleaning by shallow grinding or other cleaning to remove any hardened surface layer. Remove all evident steel defects exposed in accordance to AASHTO M 160 prior to blast cleaning. Lumps, projections, globules, or heavy deposits of galvanizing, which will provide surface conditions that when painted, will produce unacceptable aesthetic and/or visual qualities, will not be permitted.

B1.2 Two-Coat Paint System

After galvanizing, paint all exterior surfaces of steel railing assemblies and inside of rail elements at field erection and expansion joints as hereinafter provided. All galvanized surfaces to be painted shall be cleaned per SSPC-SP1 to remove chlorides, sulfates, zinc salts, oil, dirt, organic matter and other contaminants. The cleaned surface shall then be brush blast cleaned per SSPC-SP16 to create a slight angular surface profile per manufacturer's recommendation for adhesion of the tie coat. Blasting shall not fracture the galvanized finish or remove any dry film thickness. After cleaning, apply a tie coat from an approved coating system that is specifically intended to be used on a galvanized surface, per manufacturer's recommendations. The tie coat shall etch the galvanized rail and prepare the surface for the top coat. Apply a top coat per manufacturer's recommendations, matching the specified color shown on the plans. Use a preapproved top coat that is resistant to the effects of the sun and is suitable for a marine environment. The tie and top coats should be of contrasting colors, and come from the same manufacturer.

Ensure that the paint manufacturer reviews the process to be used for surface preparation and application of the paint coating system with the paint applicator. The review shall include a visit to the facility performing the work if requested by the paint manufacturer. Provide written confirmation, from the paint manufacturer to the engineer, that the review has taken place and that issues raised have been addressed before beginning coating work under the contract.

Use one of the qualified paint manufacturers and products given below. An equivalent system may be used with the written approval of the engineer.

Manufacturer	Coat	Products	Dry Film Minimum Thickness (mils)	Min. Time¹ Between Coats (hours)
<u>Sherwin Williams</u> 1051 Perimeter Drive Suite 710 Schaumburg, IL 60173 (847) 330-1562	Tie	Recoatable Epoxy Primer B67-5 Series / B67V5	2.0 to 4.0	6
	Top	Acrolon 218 HS Polyurethane, B65-650	2.0 to 4.0	NA
<u>Carboline</u> 350 Hanley Industrial St. Louis, MO 63144 (314) 644-1000	Tie	Rustbond Penetrating Sealer FC	1	36
	Tie	Carboguard 60	4.0 to 6.0	10
	Tie	Carboguard 635	4.0 to 6.0	1
	Top	Carbothane 133 LH(satin)	4	NA
<u>Wasser Corporation</u> 4118 B Place NW Suite B Auburn, WA 98001 (253) 850-2967	Tie	MC-Ferrox B 100	3.0 to 5.0	8
	Top	MC-Luster 100	2.0 to 4.0	NA
<u>PPG Protective and Marine Coatings</u> P.O. Box 192610 Little Rock, AR 72219-2610 (414) 339-5084	Tie	Amercoat 399	3.0 to 5.0	3
	Top	Amercoat 450H	2.0 to 4.0	NA

¹ Time is dependent on temperature and humidity. Contact manufacturer for more specific information.

B2 Shop Drawings

Submit shop drawings showing the details of railing construction. Show the railing height post spacing, rail location, weld sizes and locations and all dimensions necessary for the construction of the railing. Show location of shop rail splices, field erection joints and expansion joints. State the name of the paint manufacturer and the product name of the tie coat and top coat used along with the color. State the size and material type used for all components. Also show the size and location of any vent or drainage holes provided.

C Construction

C1 Delivery, Storage and Handling

Deliver material to the site in an undamaged condition. Upon receipt at the job site, all materials shall be thoroughly inspected to ensure that no damage occurred during shipping or handling and conditions of materials is in conformance with these specifications. If coating is damaged, contractor shall repair or replace railing assemblies to the approval of the engineer at no additional cost to the owner. Carefully store the material off the ground to ensure proper ventilation and drainage. Exercise care so as not to damage the coated surface during railing installation. No field welding, field cutting or drilling will be permitted without the approval of the engineer.

C2 Touch-up and Repair

For minor damage caused by shipping, handling or installation to coated surfaces, touch-up the surface in conformance with the manufacturer's recommendations. If damage is excessive, the railing assembly shall be replaced at no additional cost to the owner. The contractor shall provide the engineer with a copy of the manufacturer's recommended repair procedure and materials before repairing damaged coatings.

D Measurement

The department will measure Railing Steel Type C3 Galvanized B-13-799 as a single lump sum unit for each structure where railing is satisfactorily furnished and installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.22	Railing Steel Type C3 Galvanized B-13-799	LS

Payment is full compensation for fabricating, galvanizing, painting, transporting, and installing the railing, including any touch-up and repairs.

97. Dewatering, Item SPV.0105.24.

A Description

This special provision describes performing dewatering in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Dewatering as a single complete lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.24	Dewatering	LS

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

98. Maintaining and Removing Temporary Traffic Signal (USH 14 and CTH P), Item SPV.0105.26; (CTH P and Bourbon Road), Item SPV.0105.27; (CTH KP and Bourbon Road), Item SPV.0105.28; and (Hillebrand Drive and Bourbon Road), Item SPV.0105.29.

A Description

This special provision describes maintaining and removing temporary traffic signals installed only under a separate project, as shown in the plans.

B (Vacant)**C Construction**

Comply with standard spec 661.

D Measurement

The department will measure Maintaining and Removing Temporary Traffic Signals (Location) as a single complete lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.26	Maintaining and Removing Temporary Traffic Signal (USH 14 and CTH P)	LS
SPV.0105.27	Maintaining and Removing Temporary Traffic Signal (CTH P and Bourbon Road)	LS
SPV.0105.28	Maintaining and Removing Temporary Traffic Signal (CTH KP and Bourbon Road)	LS
SPV.0105.29	Maintaining and Removing Temporary Traffic Signal (Hillebrand Drive and Bourbon Road)	LS

Payment is full compensation for maintaining, salvaging and removing equipment, including all required materials, tools, and supplies; for all labor; for clean-up and waste disposal; and for all incidentals necessary to complete this item of work.

99. Construction Staking Storm Water Basin, Item SPV.0105.30.

A Description

This special provision describes construction staking for the storm water basin and appurtenances, as shown in the plans.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set additional construction stakes as necessary to establish location and grade of appurtenances and controls. Locate stakes to within 0.2 feet horizontally and establish the grade elevation to within 0.05 feet vertically.

D Measurement

The department will measure Construction Staking Storm Water Basin as a single complete lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.30	Construction Staking Storm Water Basin	LS

Payment is full compensation for full compensation for locating and setting all construction stakes; for relocating and resetting damaged or missing construction stakes; includes setting construction stakes for appurtenant pipes and structures as necessary, and for furnishing all incidentals necessary to complete this item of work.

100. Temporary Water System, Item SPV.0105.31.

A Description

This special provision describes constructing and maintaining a temporary water system in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Temporary Water System as a single complete lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.31	Temporary Water System	LS

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

101. Colored and Stamped Concrete, Item SPV.0165.02.**A Description**

The work under this item consists of constructing colored and stamped concrete at the locations shown on the plans, in accordance to the applicable provisions of standard spec 405 and standard spec 602.

B Materials

Comply with standard spec 405 and standard spec 602.

C Construction

Comply with standard spec 405 and standard spec 602. Stamp the concrete with a random limestone block pattern. Provide integral coloring of the concrete with the color to be Federal Standard 595 Color FS 30324. Prior to placement of the concrete, gain approval of the stamping pattern and color from:

Matt Schuenke
Village Administrator
2417 Brewery Road
Cross Plains, WI
Phone: (608) 798-3241 Ext. 105
Email: Matt@cross-plains.wi.us

D Measurement

The department will measure Colored and Stamped Concrete by the square foot of surface area, acceptably completed, including material incorporated into one sample panel or one test slab that achieves a color the engineer accepts as required under standard spec 405.3.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.02	Colored and Stamped Concrete	SF

Payment is full compensation for performing all work and properly placing all materials; backfilling; and for restoring the site.

102. Thermoplastic Asphalt Crosswalk, Item SPV.0165.03.

A Description

This special provision describes furnishing and installing thermoplastic asphalt crosswalk patterns at locations shown on the plans and as hereinafter provided.

B Materials

Furnish interior thermoplastic treatment with DuraTherm Inlaid Pre-Cut Thermoplastic Pavement Marking System by Flint Trading, Inc.. Furnish the DuraTherm pattern entitled Running Bond R90 with a white color and reflectorized glass beads.

Furnish, store, and handle DuraTherm thermoplastic per the manufacturer's recommendations. Manufacturer and product information is available at:

<http://www.flintrading.com/products/TrafficScapes-Home/DuraTherm.aspx>.

Furnish a sample panel for the approval of the engineer and the Village of Cross Plains.

C Construction

Follow the latest application procedures as issued by the manufacturer. Submit the Product Data Sheet for DuraTherm thermoplastic to the engineer at least ten working days prior to asphalt installation. The contractor performing the installation must be licensed and accredited by the manufacturer.

C.1 Pavement Joints and Seams

Avoid to the extent possible construction joints or seams in the HMA pavement in areas where this product is to be utilized. If joints or seams are unavoidable, they must be minimized.

C.2 Pavement Preparation

Prepare the pavement surface so that it is clean and free of all dust, silt, debris and chemical residue from de-icing materials. If de-icing material has been used on the road in the past, clean using pressure washing. Remove all loose material on the asphalt surface by mechanical brooming or blowing clean using a backpack blower or compressed air. Remove any difficult-to-remove dirt using pressure washing.

C.3 Heating

Utilize manufacturer approved mobile heater(s) to elevate the temperature of both the HMA pavement and the thermoplastic without adversely affecting either. Utilize manufacturer approved portable jet heater(s) only for heating isolated areas. Direct flame torches will not be allowed.

Do not exceed 325°F on the surface temperature of the pavement as determined by an infrared thermometer reading taken after the heater passes over the pavement surface. Adequately heat soak (soften) the pavement to a depth of least 1/2 inch, without burning the surface.

C.4 Installation

Utilize templates available or approved by the manufacturer for imprinting the specified pattern into the HMA pavement. Once the HMA pavement has reached imprinting temperature, place the templates in position and press into the surface using vibratory plate compactors. The top of the template is to be flush with the surrounding HMA pavement and can then be removed.

Place the pre-cut thermoplastic panels in position on completely dry and clean HMA pavement within the imprinted areas. Ensure the top of the inlaid thermoplastic is slightly lower than the surrounding HMA pavement surface. Re-apply heat, slowly raising the surface temperature until the thermoplastic panels start to liquefy and flow. Monitor the temperature continuously. Heat the thermoplastic panel to its full depth in order for the thermoplastic material to melt and create a bond with the underlying HMA pavement. Once the thermoplastic panel has been liquefied to its full depth, remove the heat source and allow the surface to cool.

For low temperature applications, take extra care to ensure the thermoplastic is thoroughly heated to assure a bond between it and the underlying HMA pavement. Do not proceed with the installation process when the outside air temperature is below 40°F.

Do not install during periods of precipitation.

Protect the melted thermoplastic until it hardens. Do not permit any debris such as dust, water, pollen, etc., to come in contact with the melted thermoplastic. The thermoplastic may be opened to traffic once it has cooled to 140°F.

D Measurement

The department will measure Thermoplastic Asphalt Crosswalk 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	Thermoplastic Asphalt Crosswalk	SF

Payment is full compensation for performing all work and properly placing all materials; for furnishing and installing all materials; and for furnishing all surface preparation.

103. Geogrid Reinforcement, Item SPV.0180.01.

A Description

This special provision describes furnishing and installing geogrids for subgrade stabilization, base reinforcement, or pavement structure applications in accordance to the plans, the standard specifications, and as hereinafter provided.

B Materials

Provide geogrid that consists of either single or joined multiple layers of a uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. The polymer shall consist of polyester, polypropylene, polyamide, or polyethylene. The grid shall maintain dimensional stability during handling, placing, and installation. The geogrid shall be insect, rodent, mildew, and rot resistant. Minimum geogrid width shall be 6.0 feet.

Provide geogrid that complies with the following physical properties:

Test	Method	Value ⁽¹⁾
Tensile Strength at 5% Strain, Both Principal Directions (lb/ft)	ASTM D 4595 ⁽²⁾	450 min.
Flexural Rigidity Both Principal Directions (mg-cm)	ASTM D 1388 ⁽³⁾	150,000 min.
Aperture Area (in ²)	Inside Measurement ⁽⁴⁾	5.0 max.
Aperture Dimension (in)	Inside Measurement ⁽⁴⁾	0.5 min.

⁽¹⁾ All numerical values represent minimum/maximum average roll values, i.e. the average minimum test results on any roll in a lot should meet or exceed the minimum specified value.

⁽²⁾ The tensile strength (T) of a joined multi-layered geogrid shall be computed using the following equation:

$$T = n(f)t$$

where

n = the number of individual layers in the joined multi-layered geogrid,

t = the tensile strength of a single layer of geogrid as determined using testing method ASTM D4595, and

f = reduction factor based on the number of layers comprising the multi-layered system and determined by the equation $f = 1.00 - [0.04(n - 1)]$.

(3) Values shall be determined by Option “A” (Cantilever Test) of testing method ASTM D1388 using test specimens that are 36 inches \pm 0.04 inch long. Test specimen widths for differing geogrids shall be variable and equal to 1 element plus $\frac{1}{2}$ the aperture width on both sides of that element. An element is defined as the minimum number of parallel strands which form a distinguishable repeating pattern.

(4) Aperture Area and Aperture Dimension for joined multi-layer geogrids shall be determined based on measurement of a single layer of the geogrid.

Protect the geogrid from ultraviolet radiation and from damage due to shipping and handling. Keep the geogrid dry until it is installed. The geogrid rolls shall be clearly marked to identify the material contained.

Deliver a sample of the geogrid material to the engineer at least 10 days prior to its incorporation into the work. At the same time, furnish a manufacturer's Certified Report of Test or Analysis that verifies that the geogrid delivered for use on the work meets the above requirements. Samples of geogrid for test purposes will be obtained from the job site for each 10,000 square yards or portions thereof used on the contract.

C Construction

Prior to placement of the geogrid, bring the indicated placement surface to the required lines, grades, and dimensions as shown on the plans. Smooth and shape the surface to eliminate any rocks, clods, roots, or other items that may cause damage to the geogrid during placement or covering.

Place the geogrid on the prepared surface at the locations and to the limits as shown on the plans. After placement, pull the geogrid taut and secure it using pins, clips, staples, or other devices to prevent movement or displacement. Place parallel strips of geogrid with a minimum overlap of 6 inches. Lap butt joints between roll ends a minimum of 12 inches. Fasten all lapped sections together by using ties, straps, clips, or other devices to develop a secure joint that meets the approval of the engineer. No vehicles or construction equipment shall be permitted to operate directly on the geogrid.

Cover small rips, tears, or defects in the geogrid with an additional section of geogrid; secure the additional geogrid in place so that it overlaps the damaged area by at least 3 feet in all directions. Remove and replace geogrid sections with large rips, tears, defects, or other damage at the direction of the engineer. All costs to repair or replace damaged or defective geogrid shall be the responsibility of the contractor.

After placement, cover the geogrid to the indicated depth with the type of material required on the plans or in the special provisions. Placing, spreading, and compacting of this material shall comply with the applicable sections of the standard specifications or special provisions except that the initial lift of material placed on the geogrid must be at least 4 inches. Placing, spreading, and compaction operations shall be conducted so that

the geogrid is not displaced or damaged. The engineer may require changes in equipment and/or operations to prevent such damage or displacement.

D Measurement

The department will measure Geogrid Reinforcement by the square yard of surface area upon which the geogrid has been placed, acceptably completed.

E Payment

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

ITEM	DESCRIPTION	UNIT
SPV.0180.01	Geogrid Reinforcement	SY

Payment is full compensation for furnishing, transporting, and installing the geogrid; furnishing and installing all devices and materials necessary to join or secure the geogrid in place.

104. Temporary Pedestrian/Bicycle Access, Item SPV.0180.02.

A Description

Work under this item consists of furnishing, maintaining, moving, and removing material at locations where temporary pedestrian crosswalks, sidewalks, and multi-use paths are maintained as designated by the engineer and as shown on the plans. Provide a temporary walkway or path, constructed to match the width of the existing facility being maintained (4' Minimum), located outside the immediate work area as approved by the engineer and as shown on the plans, and meeting the requirements of the current Americans with Disabilities Act (ADA) Accessibility Guidelines (ADAAG).

Reconstruct or move the temporary crosswalk access or bus access if required for work operations.

B Materials

Provide a hard surface material approved by the engineer, of either asphalt or concrete in accordance to the pertinent sections of the standard specifications for these items.

C Construction

Construct temporary pedestrian crosswalks, sidewalks, bus stops and multi-use paths with a maximum two percent cross slope.

D Measurement

The department will measure Temporary Bicycle/Pedestrian Access 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.0180.02	Temporary Bicycle/Pedestrian Access	SY

Payment is full compensation for furnishing, loading, and hauling; for excavation and preparing the foundation; for placing, maintaining, removing, and restoring the temporary site; for reconstructing or moving; and for providing concrete or asphalt.

105. Temporary Access Base Aggregate Dense 1 ¼-Inch, Item SPV.0195.01.

A Description

This special provision describes using base aggregate dense 1 ¼ inch material to provide temporary access to residents and businesses throughout the construction process.

B Materials

Furnish base aggregate dense 1 ¼-inch that conforms to the pertinent requirements of standard spec standard specs 301 and 305. The base aggregate dense 1 ¼-inch material will be accepted per QMP Base Aggregate production testing, all other QMP Base Aggregate testing is waived for this material.

C Construction

Temporary Access Base Aggregate Dense 1 ¼-Inch shall be placed in locations as directed by the engineer and shall be compacted before local traffic use. The placed temporary access base aggregate dense 1 ¼-inch may be incorporated into the final roadway section if approved by the engineer. All temporary access base aggregate dense 1 ¼-inch rejected for incorporation into the final roadway section shall be removed and disposed of at the contractors expense.

D Measurement

The department will measure Temporary Access Base Aggregate Dense 1 ¼-Inch by the ton, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Temporary Access Base Aggregate Dense 1 ¼-Inch	Ton

Payment is full compensation for furnishing, installing, removal, disposal and all incidentals associated with this item.

106. Sanitary Service Lateral Risers, Item SPV.0200.01.

A Description

This special provision describes furnishing and installing Sanitary Service Lateral Risers in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Sanitary Service Lateral Risers by the vertical foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.01	Sanitary Service Lateral Risers	VF

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

107. Standard Sanitary Manhole Masonry 48-Inch Diameter, Item SPV.0200.02; Drop Sanitary Manhole Masonry 48-Inch Diameter, Item SPV.0200.03.

A Description

This special provision describes furnishing and installing Standard Sanitary Manholes in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Standard Sanitary Manhole Masonry 48-Inch Diameter and Drop Sanitary Manhole Masonry 48-Inch Diameter by the vertical foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.02	Standard Sanitary Manhole Masonry 48-Inch Diameter	VF
SPV.0200.03	Drop Sanitary Manhole Masonry 48-Inch Diameter	VF

Payment is full compensation for furnishing all work herein specified in accordance to the Village of Cross Plains' Standard Sewer and Water Specifications for WisDOT Let Projects, February 2015, and for furnishing all labor, tools, equipment and incidentals to complete the work.

**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 5 (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 underrepresentation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

- (1) To increase the overall effectiveness of the State highway agencies' approved training programs.
- (2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b) (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a) (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

1. Description

General

- a. The disadvantaged business enterprise (DBE) requirements of 49 CFR Part 26 apply to this contract. The department's DBE goal is shown on the cover of the bidding proposal. The contractor can meet the specified contract DBE goal by procuring services or materials from a DBE or by subcontracting work to a DBE. The department calculates the DBE participation as the dollar value of DBE participation included in the bid expressed as a percentage of the total contract bid amount.
- b. Under the contract, the contractor agrees to provide the assistance to participating DBE's in the following areas:
 - i. Produce accurate and complete quotes.
 - ii. Understand highway plans applicable to their work.
 - iii. Understand specifications and contract requirements applicable to their work.
 - iv. Understand contracting reporting requirements.
- c. The department encourages the contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.
- d. For information on the disadvantaged business program, visit the department's Civil Rights and Compliance Section website at:

<http://www.dot.wisconsin.gov/business/engrserv/dbe-main.htm>

2. Definitions

- a. Interpret these terms, used throughout this additional special provision, as follows:
 - i. **Bid Percentage:** The DBE percentage indicated in the bidding proposal at the time of bid.
 - ii. **DBE:** A disadvantaged business enterprise (DBE) certified as a DBE by the department and included on the department's list of certified DBE's who are determined to be ready, willing and able.
 - iii. **DBE goal:** The amount of DBE participation expected in the contract as shown on the cover of the Highway Work Proposal.
 - iv. **Discretionary Goal:** A contractor assigned DBE goal, typically abbreviated as "Disc" on the cover of the Highway Work Proposal, which is enforced as committed.
 - v. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.
 - vi. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.
 - vii. **Voluntary Achievement:** The amount of DBE participation achieved and reported in the contract in excess of the assigned goal.

3. DBE Percentage Required at Bid Submission

Indicate the bid percentage (i.e. 0% through 100%) of DBE participation on the completed bidding proposal, including projects with discretionary goals. For electronic submittals, show the percentage in the miscellaneous data folder, Item 3, DBE Percent. For paper submittals, show the percentage on the sheet included after the schedule of items. By submission of the bid, the bidder contractually commits to DBE participation at or above the bid percentage, or certifies that they have utilized

comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, and that the bid percentage is reflective of these good faith efforts. If the bidder does not indicate the bid percentage of DBE participation on the completed bidding proposal, the department will consider the bid irregular and may reject the bid.

4. Department's DBE Evaluation Process

a. Documentation Submittal

Within 10 business days after the notification of contract award, the contractor is to identify, by name, the DBE firms whose utilization is intended to satisfy this provision, the items of work of the DBE subcontract or supply agreement and the dollar value of those items of work by completing the Commitment to Subcontract to DBE Form [DT1506] and all necessary attachment A forms, as well as, Good Faith Waiver Form [DT1202] and supporting documentation as necessary. If the contractor fails to furnish the required forms within the specified time, the department may cancel the award. Delay in fulfilling this requirement is not a cause for extension of the contract time and shall not be used as a tool to delay execution.

i. Bidder Meets DBE Goal

If the bidder indicates that the contract DBE goal is met, after award and before execution, the department will evaluate the Commitment to Subcontract to DBE Form DT1506 and attachment A(s) to verify the actual DBE percentage achieved. If the DBE commitment is verified, the contract is eligible for execution with respect to the DBE commitment.

ii. Bidder Does Not Meet DBE Goal

- (1) If the bidder indicates a bid percentage on the Commitment to Subcontract to DBE Form [DT1506] that does not meet the contract DBE goal, the bidder must submit a Good Faith Waiver Form [DT1202] and supporting documentation. After award and before execution, the department will evaluate the bidder's DBE commitment and consider the bidder's good faith waiver request.
- (2) The department will review the bidder's good faith waiver request and notify the bidder of one of the following:
 - a. If the department grants a good faith waiver, the bid is eligible for contract execution with respect to DBE commitment.
 - b. If the department rejects the good faith waiver request, the department may declare the bid ineligible for execution. The department will provide a written explanation of why the good faith waiver request was rejected. The bidder may appeal the department's rejection as allowed under 7 a. & b.

5. Department's Criteria for Good Faith Effort

The Code of Federal Regulations {CFR}, 49 CFR Part 26-Appendix A, is the guiding regulation concerning good faith efforts. However, the federal regulations do not define "good faith" but states that bidder must actively and aggressively attempt to meet the goal. The federal regulations are general and do not include every factor or effort that can be considered. As a result, each state must establish its own processes and consider the factors established in its own process when making a determination of good faith.

- a. The department will only grant a good faith waiver if the bidder has made the effort, given the relevant circumstances under the contract that a bidder actively and aggressively seeking to meet the goal would make. The department will evaluate the bidder's good faith effort to determine whether a good faith waiver will be granted. The bidder must demonstrate, on the DT1202 that they have aggressively solicited DBE participation in an attempt to meet the contract DBE goal and attaining the stated DBE goal is not feasible.

- b. The department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.
- c. Prime Contractors should:
 - i. Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use the Civil Rights & Compliance System [CRCS] and related WisDOT-approved DBE outreach tools, including the Bid Express Small Business Network, to foster DBE participation on all applicable contracts.
 - ii. Request quotes by identifying potential items to subcontract and solicit. Prime contractors are strongly encouraged to include in their initial contacts a single page including a detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in Appendix A.* Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, **as required by federal rules**. In some cases, it might be appropriate to use DBE's to do work in a prime contractor's area of specialization.
 - (1) Solicit quotes through all reasonable and available means from certified DBE firms who match 'possible items to subcontract' and send copies to DBESS office, highlighting areas in which you are seeking quotes. Email is acceptable.
 - (2) SBN is the preferred outreach tool. <https://www.bidx.com/wi/main>. Other acceptable means include postal mail, email, fax, phone call.
 - a. Primes must ask DBE firms for a response in their solicitations. *See Sample Contractors Solicitation Letter* in Appendix. This letter can be included as an attachment to the SBN sub-quote request.
 - b. Solicit quotes at least 10 calendar days prior to the letting date {ideally two Fridays before the letting} to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking them if they need help in putting together a quote, or helping to arrange for equipment needs, or solve other problems.
 - (3) Second solicitation should take place within 5 days
 - a. An email solicitation is highly recommended for this second solicitation
 - (4) Upon request, provide interested DBE firms with adequate information about plans, specifications and the requirements of the contract by letter, information session, email, phone call and/or referral.
 - (5) When potential exists, advise interested DBE firms on how to obtain bonding, line of credit or insurance as may be requested.
 - (6) Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:
 - a. Email to all prospective DBE firms in relevant work areas
 - b. Phone call log to DBE firms who express interest via written response or call.
 - c. Fax/letter confirmation
 - d. Copy of the DBE quotes
 - e. Signed copy of Bid Express SBN Record of Subcontractor Outreach Effort.
- d. Evaluate DBE quotes as documentation is critical if the prime does not utilize the DBE firm's quote for any reason.
 - i. Evaluate DBE firm's capability to perform 'possible items to subcontract' using legitimate reasons, including but not limited to, **a discussion with the DBE firm** regarding its

- capabilities prior to the bid letting. If lack of capacity is your reason for not utilizing the DBE quote, you are required to contact the DBE directly regarding their ability to perform the work indicated in the UCP directory as their work area [NAICS code]; only the work area and/or NAICS code listed in the UCP directory will be counted for DBE credit. Documentation of the conversation is required.
- ii. In striving to meet a DBE conscious contract goal, prime contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
 - iii. **Special Circumstance:** Evaluation of DBE quotes with tied bid items. "Tied quotes are the condition in which a subcontractor submits quotes including multiple areas of expertise across multiple work areas noting that the items and price are tied. Typically this type of quoting represents a cost saving to the prime but is not clearly stated as a discount; tied quotes are usually presented as 'all or none' quote to the prime." When non-DBE subcontractors submit tied bid items in their quotes to the prime, the DBE firms' quote may seem not competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples.
 - (1) Compare bid items common to both quotes, noting the reasonableness in the price comparison.
 - (2) Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.
- e. After notification of contract award, submit '**Commitment to Subcontract**' form within the time period specified in the contract.
 - i. Provide the following information along with department form DT1202:
 - (1) The names, addresses, e-mail addresses, telephone numbers of DBE's contacted. The dates of both initial and follow-up contact. A printed copy of SBN solicitation is acceptable.
 - (2) A description of information provided to the DBE's regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE.
 - (3) Photocopies or electronic copies of all written solicitations to DBE's.
 - (4) Documentation of each quote received from a DBE and, if rejected, the reason for that rejection.
 - (5) Bidder attendance at any pre-solicitation or pre-bid meetings the department held to inform DBE's of participation opportunities available on the project.
 - f. The department's DBE Support Services Office is available by phone, email or in writing to request assistance in meeting the DBE goal:

DBE Support Services Office
6150 Fond du Lac Ave.
Milwaukee, WI 53218
Phone: 414-438-4583 / 608-266-6961
Fax: 414-438-5392
E-mail: DOTDBESupportServices@dot.wi.gov

6. Bidder's Appeal Process

- a. A bidder can appeal the department's decision to deny the bidder's good faith waiver request. The bidder must provide written documentation refuting the specific reasons for rejection as stated in the department's rejection notice. The bidder may meet in person with the department if so

requested. Failure to appeal within 7 calendar days after receiving the department's written notice of rejection of a good faith waiver request under constitutes a forfeiture of the bidder's right of appeal. If the bidder does not appeal, the department may declare the bid ineligible for execution.

- b. The department will appoint a representative, who did not participate in the original determination, to assess the bidder's appeal. The department will issue a written decision within 7 calendar days after the bidder presents all written and oral testimony. In that written decision, the department will explain the basis for finding that the bidder did or did not meet the contract DBE goal or make an adequate good faith effort to meet the contract DBE goal. The department's decision is final. If the department finds that the bidder did not meet the contract DBE goal or did not make adequate efforts to meet the DBE goal, the department may declare the bid ineligible for execution.

7. Department's Criteria for DBE Participation

Department's DBE List

- a. The department maintains a DBE list on the department's website at <http://app.mylcm.com/wisdot/Reports/WisDotUCPDirectory.aspx>
- b. The DBE office is also available to assist at 414-438-4583 or 608-266-6961.

8. Counting DBE Participation

Assessing DBE Work

- a. The department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the unified certification program agencies. If a firm becomes DBE certified before entering into a subcontract, the department may consider that DBE usage towards the contract goal. The department only counts the value of the work a DBE actually performs towards the DBE goal. The department assesses the DBE work as follows:
- b. The department counts work performed by the DBE's own resources. The department includes the cost of materials and supplies the DBE obtains for the work. The department also includes the cost of equipment the DBE leases for the work. The department will not include the cost of materials, supplies, or equipment the DBE purchases or leases from the prime contractor or its affiliate, except the department will count non-project specific leases the DBE has in place before the work is advertised.
- c. The department counts fees and commissions the DBE charges for providing a bona fide professional, technical, consultant, or managerial services. The department also counts fees and commissions the DBE charges for providing bonds or insurance. The department will only count costs the engineer deems reasonable based on experience or prevailing market rates.
- d. If a DBE subcontracts work, the department counts the value of the subcontracted work only if the DBE's subcontractor is also a DBE.
- e. The contractor shall maintain records and may be required to furnish periodic reports documenting its performance under this item.
- f. It is the prime contractor's responsibility to determine the DBE's ability to perform the work with the use of the UCP directory.

9. Commercially Useful Function

- a. The department counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.
- b. A DBE is performing a commercially useful function if the following conditions are met:
- c. For contract work, the DBE is responsible for executing a distinct portion of the contract work and it is carrying out its responsibilities by actually performing, managing, and supervising that work.
- d. For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

10. Trucking

All bidders are expected to adhere to the department's current trucking policy posted on the HCCI website at

<http://www.dot.wisconsin.gov/business/engrserv/docs/dbe-trucking-notice.pdf>

11. Manufacturers and Suppliers

The department counts material and supplies a DBE provides under the contract. The department will give full credit toward the DBE goal if the DBE is a manufacturer of those materials or supplies. The department will give 60 percent credit toward the DBE goal if the DBE is merely a supplier of those materials or supplies. It is the bidder's responsibility to find out if the DBE is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506.

12. DBE Prime

If the prime contractor is a DBE, the department will only count the work the contractor performs with its own forces, the work DBE subcontractors perform, and the work DBE suppliers or manufacturers perform.

13. Joint Venture

If a DBE performs as a participant in a joint venture, the department will only count that portion of the total dollar value of the contract equal to that portion of the work that the DBE performs with its own forces.

14. Mentor Protégé

- a. If a DBE performs as a participant in a mentor protégé agreement, the department will credit the portion of the work performed by the DBE protégé firm
- b. On every other project that the mentor protégé team identifies itself on.
- c. For no more than one half of the total contracted DBE goal on any WisDOT project.

15. DBE Replacement

In the event a Prime Contractor needs to replace a DBE firm originally listed on the approved DBE Commitment Form DT1506, the Prime Contractor must comply with the department's DBE Replacement Policy located on the DBE page on the following web site:

<http://www.dot.wi.gov/business/dbe/docs/policyreplacingdbe.pdf>

16. Changes to the approved DBE Commitment Form DT1506

If there are any changes to the approved Commitment to Subcontract to DBE Form DT1506, the prime contractor must submit a revised DBE Commitment Form DT1506 and relevant attachment A(s) to the DBE Programs Office within 5 business days.

17. Contract Modifications

When additional opportunity is available by contract modifications, the Prime Contractor shall utilize DBE Subcontractors, that were committed to equal work items, in the original contract.

18. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

APPENDIX A
Sample Contractor Solicitation Letter Page 1
This sample is provided as a guide not a requirement

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 <http://roadwaystandards.dot.wi.gov/hcci/>

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. **Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.** We prefer quotes be sent via SBN but prime's alternative's are acceptable. Our office hours are include hours and days. Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at <http://roadwaystandards.dot.wi.gov/hcci/>

All questions should be directed to:

Project Manager, John Doe,
Phone: (000) 123-4567
Email: Joe@joetheplumber.com
Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2

This sample is provided as a guide not a requirement

REQUEST FOR QUOTATION

Prime's Name: _____

Letting Date: _____

Project ID: _____

Please check all that apply

- .. Yes, we will be quoting on the projects and items listed below
- .. No, we are not interested in quoting on the letting or its items referenced below
- .. Please take our name off your monthly DBE contact list
- .. We have questions about quoting this letting. Please have some one contact me at this number

Prime Contractor 's Contact Person

Phone: _____
Fax: _____
Email: _____

DBE Contractor Contact Person

Phone _____
Fax _____
Email _____

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clear and Grub	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternative's are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

APPENDIX B
BEST PRACTICES FOR PRIME CONTRACTOR & DBE
SUBCONTRACTOR GOOD FAITH EFFORT

This list is not a set of requirements; it is a list of potential strategies

Primes

- 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 an per-item basis as well.
 - b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder
 - c. Add attachments to a sub-quote
 - d. Add unsolicited work items to sub-quotes that you are responding to
5. Easy Access to Valuable Information
 - a. Receive a confirmation that your sub-quote was opened by a prime
 - b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
 - c. View important notices and publications from DOT targeted to small and disadvantaged businesses
6. Accessing Small Business Network for WisDOT contracting opportunities
 - a. If you are a contractor not yet subscribing to the Bid Express service, go to **www.bidx.com** and select "Order Bid Express." The Small Business Network is a part of the Bid Express Basic Service.
 - b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-4588

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

ADDITIONAL SPECIAL PROVISION 6

ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

450.3.2.1 General

Replace the entire text with the following effective with the January 2015 letting:

- (1) Do not place asphaltic mixture when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 36 F for upper layers or 32 F for lower layers unless the engineer allows in writing. The contractor should place HMA pavement for projects on or north of STH 29 between May 1 and October 15 inclusive and for projects south of STH 29 between April 15 and November 1 inclusive. Notify the engineer at least one business day before paving.
 - (2) Unless the contract specifies otherwise, conform to the following:
 - Keep the road open to all traffic during construction.
 - Prepare the existing foundation for treatment as specified in 211.
 - Incorporate loose roadbed aggregate as a part of preparing the foundation, in shoulder construction, or dispose of as the engineer approves.
 - (3) Place asphaltic mixture only on a prepared, firm, and compacted base, foundation layer, or existing pavement substantially surface-dry and free of loose and foreign material. Do not place over frozen subgrade or base, or where the roadbed is unstable.
-

450.5 Payment

Replace the entire text with the following effective with the January 2015 letting:

- (1) All costs of furnishing, maintaining, and operating the truck scale or other weighing equipment and furnishing the weigh tickets are incidental to the contract.
 - (2) Nonconforming material allowed to remain in place is subject to price adjustment under 105.3.2.
 - (3) Full-depth sawing to remove integrally placed safety edge where not required is incidental to the contract.
 - (4) The contractor is responsible for pavement performance. If because of an excusable compensable delay under 108.10.3, the engineer directs the contractor to pave when the temperature is less than 36 F for the upper layer or less than 32 F for lower layers, the department:
 - Will relieve the contractor of responsibility for damage and defects the engineer attributes to cold weather paving.
 - Will not assess disincentives for density or ride.
-

455.3.2.1 General

Replace paragraphs one and two with the following effective with the January 2015 letting:

- (1) Apply tack coat only when the air temperature is 32 F or more unless the engineer approves otherwise in writing. Before applying tack coat ensure that the surface is dry and reasonably free of loose dirt, dust, or other foreign matter. Do not apply if weather or surface conditions are unfavorable or before impending rains.
- (2) Use tack material of the type and grade the contract specifies. The contractor may, with the engineer's approval, dilute tack material as allowed under 455.2.4. Provide calculations using the asphalt content as-received from the supplier and subsequent contractor dilutions to show that as-placed material has 50 percent or more residual asphalt content. Apply at 0.050 to 0.070 gallons per square yard, after dilution, unless the contract designates otherwise. The engineer may adjust the application rate based on surface conditions. Limit application each day to the area the contractor expects to pave during that day.

460.2.2.3 Aggregate Gradation Master Range

Replace paragraph one with the following effective with the December 2014 letting:

- (1) Ensure that the aggregate blend, including recycled material and mineral filler, conforms to the gradation requirements in table 460-1. The values listed are design limits; production values may exceed those limits.

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENTS PASSING DESIGNATED SIEVES						
	NOMINAL SIZE						
	37.5 mm	25.0 mm	19.0 mm	12.5 mm	9.5 mm	SMA 12.5 mm	SMA 9.5 mm
50.0-mm	100						
37.5-mm	90 – 100	100					
25.0-mm	90 max	90 - 100	100				
19.0-mm	—	90 max	90 - 100	100		100	
12.5-mm	—	—	90 max	90 - 100	100	90 - 97	100
9.5-mm	—	—	—	90 max	90 - 100	58 - 72	90 - 100
4.75-mm	—	—	—	—	90 max	25 - 35	35 - 45
2.36-mm	15 – 41	19 - 45	23 - 49	28 - 58	20 - 65	15 - 25	18 - 28
75-µm	0 – 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	8.0 - 12.0	10.0 - 14.0
% MINIMUM VMA	11.0	12.0	13.0	14.0 ^[1]	15.0 ^[2]	16.0	17.0

^[1] 14.5 for E-0.3 and E-3 mixes.

^[2] 15.5 for E-0.3 and E-3 mixes.

460.3.4 Cold Weather Paving

Add a new subsection as follows effective with the January 2015 letting:

460.3.4 Cold Weather Paving**460.3.4.1 Cold Weather Paving Plan**

- (1) Submit a written cold weather paving plan to the engineer at the preconstruction meeting. In that plan outline material, operational, and equipment changes for paving when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 40 F. Include the following:
- Use a department-accepted HMA mix design that incorporates a warm mix additive from the department's approved products list. Do not use a foaming process.
 - Use additional rollers.

- (2) Engineer written acceptance is required for the cold weather paving plan. Engineer acceptance of the plan does not relieve the contractor of responsibility for pavement performance except as specified in 450.5(4).

460.3.4.2 Cold Weather Paving Operations

- (1) Do not place asphaltic mixture when the air temperature approximately 3 feet above grade, in shade, and away from artificial heat sources is less than 40 F unless a valid engineer-accepted cold weather paving plan is in effect.
- (2) If the national weather service forecast for the construction area predicts ambient air temperature less than 40 F at the projected time of paving within the next 24 hours, confirm or submit revisions to a previously engineer-accepted cold weather paving plan for engineer validation. Upon validation of the plan, the engineer will allow paving for the next day. Once in effect, pave conforming to the engineer-accepted cold weather paving plan for the balance of that work day or shift regardless of the temperature at the time of paving.

460.4 Measurement

Add paragraph two as follows effective with the January 2015 letting:

- (2) The department will measure HMA Cold Weather Paving by the ton of HMA mixture for pavement placed conforming to an engineer-accepted cold weather paving plan.

460.5.1 General

Revise paragraph one as follows effective with the January 2015 letting:

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

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
460.1100	HMA Pavement Type E-0.3	TON
460.1101	HMA Pavement Type E-1	TON
460.1103	HMA Pavement Type E-3	TON
460.1110	HMA Pavement Type E-10	TON
460.1130	HMA Pavement Type E-30	TON
460.1132	HMA Pavement Type E-30X	TON
460.1700	HMA Pavement Type SMA	TON
460.2000	Incentive Density HMA Pavement	DOL
460.4000	HMA Cold Weather Paving	TON

460.5.2.2 Disincentive for HMA Pavement Density

Revise paragraph two as follows effective with the January 2015 letting:

- (2) The department will not assess density disincentives for pavement placed in cold weather because of a department-caused delay as specified in 450.5(4).

460.5.2.4 Cold Weather Paving

Add a new subsection as follows effective with the January 2015 letting:

460.5.2.4 Cold Weather Paving

- (1) Payment for HMA Cold Weather Paving is full compensation for additional materials and equipment specified for cold weather paving under 460.3.4 including costs for preparing, administering, and following the contractor's cold weather paving plan.
- (2) If HMA pavement is placed under 460.3.4 and the HMA Cold Weather Paving bid item is not in the contract, the department will pay for the additional costs specified in 460.5.2.4(1) as extra work. The department will pay separately for HMA pavement under the appropriate HMA Pavement bid items.

465.2 Materials

Replace paragraph two with the following effective with the December 2014 letting:

- (2) Under the other section 465 bid items, the contractor need not submit a mix design. Furnish aggregates mixed with a type AC asphaltic material, except under the Asphaltic Curb bid item furnish PG58-28 asphaltic material. Use coarse and fine mineral aggregates uniformly coated and mixed with the asphaltic material in an engineer-approved mixing plant. The contractor may include reclaimed asphaltic pavement materials in the mixture.

Bid Items Added

Add the following new bid item effective with the January 2015 letting:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
460.4000	HMA Cold Weather Paving	TON

Errata

Make the following corrections to the standard specifications:

501.3.2.4.4 Water Reducer

Correct errata by deleting the reference to footnote 6 for grade D concrete.

- (1) Add a water reducing admixture conforming to 501.2.3. Determine the specific type and rate of use based on the atmospheric conditions, the desired properties of the finished concrete and the manufacturer's recommended rate of use. The actual rate of use shall at least equal the manufacturer's recommended rate, and both the type and rate used require the engineer's approval before use.

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.

ADDITIONAL SPECIAL PROVISION 9
Electronic Certified Payroll Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to submit certified payrolls electronically. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

<http://www.dot.wi.gov/business/civilrights/laborwages/index.htm>

(2) Ensure that all tiers of subcontractors, as well as all trucking firms, submit their weekly certified payrolls electronically through CRCS. These payrolls are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin payrolls. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Tess Mulrooney at 608-267-4489 to schedule the training.

(4) The department will reject all paper submittals of forms DT-1816 and DT-1929 for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll data from their computer system into CRCS should have their payroll coordinator send several sample electronic files to Tess two months before a payroll needs to be submitted. Not every contractor's payroll system is capable of producing export files. For details, see pages 17-22 of the CRCS System Background Information manual available online on the Labor, Wages, and EEO Information page at:

<http://www.dot.wi.gov/business/civilrights/laborwages/docs/crc-payroll-manual.pdf>

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

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

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

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

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

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

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

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

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

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

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

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

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

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

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

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

SEPTEMBER 2002

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE
EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.
2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>	<u>County</u>	<u>%</u>
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

As referred to in this section, the Director means:

Director
Office of Federal Contract Compliance Programs
Ruess Federal Plaza
310 W. Wisconsin Ave., Suite 1115
Milwaukee, WI 53202

The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

DECEMBER 2013

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this "Buy America" provision.

<http://roadwaystandards.dot.wi.gov/standards/cmm/cm-02-28.pdf#cm2-28.5>

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

<http://roadwaystandards.dot.wi.gov/standards/forms/ws4567.doc>

Effective with September 2004 Letting

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS AND TRANSPORTATION FACILITIES**

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS

- I. Wage Rates, Hours of labor and payment of Wages
- II. Payroll Requirements
- III. Postings at the Site of the Work
- IV. Affidavits
- V. Wage Rate Redistribution
- VI. Additional Classifications

I. WAGE RATES, HOURS OF LABOR AND PAYMENT OF WAGES

The schedule of "Minimum Wage Rates" attached hereto and made a part hereof furnishes the prevailing wage rates that have been determined pursuant to Section 103.50 of the Wisconsin Statutes. These wage rates are the minimum required to be paid to the various laborers, workers, mechanics and truck drivers employed by contractors and subcontractors on the construction work embraced by the contract and subject to prevailing hours and wages under Section 103.50, Stats. If necessary to employ laborers, workers, mechanics or truck drivers whose classification is not listed on the schedule, they shall be paid at rates conformable to those listed for similar classifications. Apprentices shall be paid at rates not less than those prescribed in their state indenture contracts.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

Pursuant to Section 103.50 of the Wisconsin Statutes, the prevailing hours of labor have been determined to be up to 10 hours per day and 40 hours per calendar week Monday through Friday. If any laborer, worker, mechanic or truck driver is permitted or required to work more than the prevailing number of hours per day or per calendar week on this contract, they shall be paid for all hours in excess of the prevailing hours at a rate of at least one and one-half (1 1/2) times their hourly rate of pay. All work on Saturday, Sunday and the following holidays is to be paid at time and a half: (1) January 1, (2) the last Monday in May, (3) July 4, (4) the first Monday in September, (5) the fourth Thursday in November, (6) December 25, (7) the day before if January 1, July 4 or December 25 falls on a Saturday and (8) the day following if January 1, July 4 or December 25 falls on a Sunday.

All laborers, workers, mechanics and truck drivers shall be paid unconditionally not less often than once a week. Persons who own and operate their own trucks must receive the prevailing truck driver rate for the applicable type of truck (i.e. 2 axle, 3 or more axle, articulated, eculid or dumptor) he or she operates, plus an agreed upon amount for the use of his or her truck. Every owner-operator MUST be paid separately for their driving and for the use of their truck.

For those projects subject to the requirements of the Davis-Bacon Act, the Secretary of Labor will also have determined "Minimum Wage Rates" for work to be performed under the contract. These rates are, for all or most of the labor, worker, mechanic or truck driver classifications, identical to those established under Section 103.50 of the Wisconsin Statutes. In the event the rates are not identical, the higher of the two rates will govern.

II. PAYROLL REQUIREMENTS

All contractors and subcontractors must submit weekly Certified Payrolls and Compliance Statement verifying that all laborers, workers, mechanics and truck drivers working on the project have been paid the prevailing wage rates for all work performed under the contract required by Section 103.50 of the Wisconsin Statutes.

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the Department, the contractor shall post the following in at least one conspicuous place at the site of work:

- a. "NOTICE TO EMPLOYEES," which provides information required to be posted by the provisions of Section 103.50 of the Wisconsin Statutes.
- b. A copy of the State of Wisconsin Minimum Wages Rates. (Four pages.)
- c. A copy of the contractor's Equal Employment Opportunity Policy.
- d. On any project involving federal aid, in addition to the furnished postings, the contractor shall post a copy of the "Davis-Bacon Act, Minimum Wage Rates". (Three pages.)

IV. WAGE RATE REDISTRIBUTION

The amount specified as the hourly basic rate of pay and the amount(s) specified as the fringe benefit contribution(s), for all classes of laborers, workers, mechanics or truck drivers may be redistributed, when necessary, to conform to those specified in any applicable collective bargaining agreement, provided that both parties to such agreement

request and receive the approval for any such redistribution from both the Department of Transportation and the Department of Workforce Development prior to the implementation of such redistribution.

V. ADDITIONAL CLASSIFICATIONS

Any unlisted laborer or mechanic classification that is needed to perform work on this project, and is not included within the scope of any of the classifications listed in the application prevailing wage rate determination, may be added after award only if all of the following criteria have been met:

1. The affected employer(s) must make a written request to WisDOT Central Office to utilize the unlisted classification on this project.
2. The request must indicate the scope of the work to be performed by the unlisted classification and must indicate the proposed wage/fringe benefit package that the unlisted classification is to receive.
3. The work to be performed by the unlisted classification must not be performed by a classification that is included in the applicable prevailing wage rate determination.
4. The unlisted classification must be commonly employed in the area where the project is located.
5. The proposed wage/fringe benefit package must bear a reasonable relationship to those set forth in the applicable prevailing wage rate determination.
6. The request should be made prior to the actual performance of the work by the unlisted classification.
7. DWD must approve the use of the unlisted classification and the proposed wage/fringe benefit package. USDOL also must approve the use of the unlisted classification and the proposed wage/fringe benefit package on federal aid projects.
8. WisDOT and DWD may amend the proposed wage/fringe benefit package, as deemed necessary, and may set forth specific employment ratios and scope of work requirements in the approval document.

The approved wage/fringe benefit package shall be paid to all laborers, workers, mechanics or truck drivers performing work within the scope of that performed by the unlisted classification, from the first day on which such work is performed. In the event that work is performed by the unlisted classification prior to approval, the wage/fringe benefit package to be paid for such work must be in conformance with the wage/fringe

benefit package approved for such work. Under this arrangement a retroactive adjustment in wages and/or fringe benefits may be required to be made to the affected laborers, workers, mechanics or truck drivers by the affected employer(s).

**ANNUAL PREVAILING WAGE RATE DETERMINATION
FOR ALL STATE HIGHWAY PROJECTS
DANE COUNTY**

Compiled by the State of Wisconsin - Department of Workforce Development
for the Department of Transportation
Pursuant to s. 103.50, Stats.
Issued on May 1, 2014

CLASSIFICATION: Contractors are required to call the Department of Workforce Development if there are any questions regarding the proper trade or classification to be used for any worker on a public works project.

OVERTIME: Time and one-half must be paid for all hours worked over 10 hours per day and 40 hours per calendar week and for all hours worked on Saturday, Sunday and the following six (6) holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25; the day before if January 1, July 4 or December 25 falls on a Saturday; the day following if January 1, July 4 or December 25 falls on a Sunday.

FUTURE INCREASE: If indicated for a specific trade or occupation, the full amount of such increase MUST be added to the "TOTAL" indicated for such trade or occupation on the date(s) such increase(s) becomes effective.

PREMIUM PAY: If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.

SUBJOURNEY: Wage rates may be available for some of the classifications indicated below. Any employer that desires to use any subjourney classification on a project MUST request the applicable wage rate from the Department of Workforce Development PRIOR to the date such classification is used on such project. Form ERD-10880 is available for this purpose and can be obtained by writing to the Department of Workforce Development, Equal Rights Division, P.O. Box 8928, Madison, WI 53708.

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
Bricklayer, Blocklayer or Stonemason	32.01	17.35	49.36
Carpenter	30.48	15.90	46.38
Cement Finisher	33.51	16.13	49.64
Future Increase(s): Add \$1.87 on 6/1/14; Add \$1.87 on 6/1/15; Add \$1.75 on 6/1/16.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.			
Electrician	34.07	19.25	53.32
Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Fence Erector	24.72	0.00	24.72
Ironworker	31.25	19.46	50.71
Line Constructor (Electrical)	38.25	17.31	55.56
Painter	21.87	11.37	33.24
Pavement Marking Operator	30.00	0.00	30.00
Piledriver	30.98	15.90	46.88
Roofer or Waterproofing	29.40	6.25	35.65
Teledata Technician or Installer	21.89	11.85	33.74
Tuckpointer, Caulker or Cleaner	35.25	13.15	48.40
Underwater Diver (Except on Great Lakes)	34.48	15.90	50.38
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	34.43	15.24	49.67
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	35.50	15.89	51.39
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.78	13.63	40.41
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	24.86	12.97	37.83

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	<u>\$</u>	<u>\$</u>	<u>\$</u>
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.70	34.45

TRUCK DRIVERS

Single Axle or Two Axle	34.22	19.90	54.12
Three or More Axle	24.52	17.77	42.29
Future Increase(s): Add \$1.30/hr on 6/1/2014. Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Articulated, Euclid, Dumptror, Off Road Material Hauler	29.27	20.40	49.67
Future Increase(s): Add \$1.75/hr on 6/1/14; Add \$1.25/hr on 6/1/15; Add \$1.30/hr on 6/1/16; Add \$1.25/hr on 6/ 1/ 17. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/ business/ civilrights/ laborwages/ pwc. htm .			
Pavement Marking Vehicle	23.31	17.13	40.44
Shadow or Pilot Vehicle	34.22	19.90	54.12
Truck Mechanic	23.31	17.13	40.44

LABORERS

General Laborer	29.32	14.63	43.95
Future Increase(s): Add \$1.60/hr on 6/1/2014. Premium Pay: Add \$.10/hr for topman, air tool operator, vibrator or tamper operator (mechanical hand operated), chain saw operator and demolition burning torch laborer; Add \$.15/hr for bituminous worker (raker and luteman), formsetter (curb, sidewalk and pavement) and strike off man; Add \$.20/hr for blaster and powderman; Add \$.25/hr for bottomman; Add \$.35/hr for line and grade specialist; Add \$.45/hr for pipelayer. / DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Asbestos Abatement Worker	24.36	14.44	38.80
Landscaper	29.32	14.63	43.95
Future Increase(s): Add \$1.60/hr on 6/1/14. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).			
Flagperson or Traffic Control Person	25.67	14.63	40.30
Future Increase(s): Add \$1.60/hr on 6/1/2014. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.			
Fiber Optic Laborer (Outside, Other Than Concrete Encased)	18.31	12.67	30.98
Railroad Track Laborer	23.46	3.30	26.76

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
HEAVY EQUIPMENT OPERATORS			
Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc. htm .	36.72	20.40	57.12
Backhoe (Track Type) Having a Mfrg.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs., & Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017. Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc. htm .	36.22	20.40	56.62
Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfrg.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boatmen (NOT Performing Work on the Great Lakes); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches	35.72	20.40	56.12

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$

& A- Frames.			
Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			

Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine.	35.46	20.40	55.86
Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			

Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.	35.17	20.40	55.57
Future Increase(s): Add \$1.75/hr on 6/1/2014); Add \$1.25/hr on 6/1/2015); Add \$1.30/hr on 6/1/2016); Add \$1.25/hr on 6/ 1/ 2017.			
Premium Pay: DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: http:// www.dot.wi.gov/business/civilrights/laborwages/pwc.htm .			

Fiber Optic Cable Equipment.	26.69	16.65	43.34

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: November 28, 2014

LABORERS CLASSIFICATION:		Basic Hourly Rates	Fringe Benefits		Basic Hourly Rates	Fringe Benefits
Group 1:	General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence and Bridge Builder; Landscaper, Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, Utility Man); Batch Truck Dumper; or Cement Handler; Bituminous Worker; (Dumper, Ironer, Smoother, Tamper); Concrete Handler	\$30.41	15.04	Truck Drivers:		
				1 & 2 Axles	25.18	18.31
				Three or More Axles; Euclids, Dumptor & Articulated, Truck Mechanic.....	25.38	18.31
Group 2:	Air Tool Operator; Joint Sawyer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer	30.51	15.04			
Group 3:	Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off man.....	30.56	15.04			
Group 4:	Line and Grade Specialist	30.76	15.04			
Group 5:	Blaster and Powderman	30.61	15.04			
Group 6:	Flagperson and Traffic Control Person.....	26.76	15.04			

CLASSES OF LABORER AND MECHANICS

Bricklayer	28.41	12.81
Carpenter	30.48	15.80
Millwright	32.11	15.80
Piledriverman	30.98	15.80
Ironworker	31.50	20.03
Cement Mason/Concrete Finisher	32.09	16.13
Electrician		See Page 3
Line Construction		
Lineman.....	40.81	32% + 5.00
Heavy Equipment Operator	38.77	32% + 5.00
Equipment Operator.....	32.65	32% + 5.00
Heavy Groundman Driver	26.78	14.11
Light Groundman Driver	24.86	13.45
Groundsman	22.45	32% + 5.00
Painter, Brush	24.50	16.27
Painter, Spray, Structural Steel,Bridges.....	25.50	16.27
Well Drilling:		
Well Driller.....	16.52	3.70

Notes: Welders receive rate prescribed for craft performing operation to which welding is incidental. Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR, 5.5(a)(1)(ii)). Includes Modification #0, dated January 3, 2014; Modification #1, dated February 7, 2014; Modification #2, dated March 14, 2014; Modification #3, dated May 2, 2014; Modification #4, dated June 27, 2014; Modification #5, dated July 4, 2014; Modification #6, dated July 25, 2014; Modification #7, dated August 1, 2014; Modification #8, dated November 28, 2014.

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: November 28, 2014

<u>POWER EQUIPMENT OPERATORS CLASSIFICATION:</u>	<u>Basic Hourly Rates</u>	<u>Fringe Benefits</u>	<u>POWER EQUIPMENT OPERATORS CLASSIFICATION: (Continued)</u>	<u>Basic Hourly Rates</u>	<u>Fringe Benefits</u>
Group 1: Cranes, tower cranes and derricks, with or without attachments, with a lifting capacity of over 100 tons or cranes, tower cranes and derricks with boom, leads and/or jib lengths measuring 176 feet or longer	\$37.72	\$20.93	(scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader hydraulic backhoe (tractor-type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller (over 5 tons); percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches and A-frames; post driver; material hoist operator.	\$36.72	\$20.93
Group 2: Cranes, tower cranes and derricks, with or without attachments, with a lifting capacity of 100 tons or less or cranes, tower cranes and derricks with boom, leads and/or jib lengths measuring 175 feet or less, and backhoes (excavators) having a manufacturer's rated capacity of 3 cu. yds. and over, caisson rigs, pile driver, dredge operator, dredge engineer.	\$37.22	\$20.93	Group 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self-propelled; tractor (mounted or towed compactors and light equipment); shouldering machine; self-propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint saw (multiple blade) belting machine; burlap machine; texturing machine; tractor, endloader (rubber tired) - light; jeep digger; fork lift; mulcher; launch operator; fireman; environmental burner.	\$36.46	\$20.93
Group 3: Mechanic or welder - heavy duty equipment, cranes with a lifting capacity of 25 tons or less, concrete breaker (manual or remote); vibrator/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pavement spreader - heavy duty (rubber tired); concrete spreader and distributor, automatic subgrader (concrete); concrete grinder and planing machine; concrete slipform curb and gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi and over); bridge paver; concrete conveyor system; concrete pump; stabilizing mixer (self propelled); shoulder widener; asphalt plant engineer; bituminous paver; bump cutter and grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer and scarifier; backhoes (excavators) having a manufacturers rated capacity of under 3 cu. yds.; grader or motor patrol; tractor			Group 5: Air compressor; power pack; vibratory hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; concrete proportioning plants generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill operator; oiler; pump (over 3 inches); drilling machine helper.	\$36.17	\$20.93
			Group 6: Off - road material hauler with or without ejector.....	\$30.27	\$20.93
			Premium Pay: EPA Level "A" protection - \$3.00 per hour EPA Level "B" protection - \$2.00 per hour EPA Level "C" protection - \$1.00 per hours		

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin

GENERAL DECISION NUMBER: WI140010

DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

DATE: November 28, 2014

LABORERS CLASSIFICATION:

Rates

Benefits

			Area 4 -	BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE (Wausauke and area south thereof), OCONTO, MENOMINEE (East of a line 6 miles West of the West boundary of Oconto County), SHAWANO (except area North of Townships of Aniwa and Hutchins) COUNTIES.
Electricians				
Area 1	\$29.00	26.5%+ 9.15		
Area 2:				
Electricians.....	30.59	18.43	Area 5 -	ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Area North of the town of Wausauke), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Area North of the townships of Aniwa and Hutchins), VILAS AND WOOD COUNTIES
Area 3:				
Electrical contracts under \$130,000	26.24	16.85		
Electrical contracts over \$130,000	29.41	16.97		
Area 4:	28.50	28.75% + 9.27		
Area 5	28.96	24.85% + 9.70		
Area 6	35.25	19.30	Area 6 -	KENOSHA COUNTY
Area 8				
Electricians.....	31.10	24.95% + 10.41	Area 8 -	DODGE, (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington township), ROCK and WALWORTH COUNTIES
Area 9:				
Electricians.....	34.82	19.575		
Area 10	29.64	20.54	Area 9 -	COLUMBIA, DANE, DODGE, (area west of Hwy. 26, except Chester & Emmet Townships), GREEN LAKE (except townships of Berlin, Seneca and St. Marie), IOWA, MARQUETTE (except townships of Neshkoka, Crystal Lake, Newton and Springfield), and SAUK COUNTIES
Area 11	32.54	24.07		
Area 12	32.87	19.23	Area 10 -	CALUMET (Township of New Holstein), DODGE (East of Hwy. 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES
Area 13	33.93	22.67		
Teledata System Installer				
Area 14			Area 11 -	DOUGLAS COUNTY
Installer/Technician	22.50	12.72		
Sound & Communications			Area 12 -	RACINE (except Burlington township) COUNTY
Area 15				
Installer	16.47	14.84	Area 13 -	MILWAUKEE, OZAUKEE, WASHINGTON and WAUKESHA COUNTIES
Technician	25.63	17.21	Area 14 -	Statewide.
Area 1 -	CALUMET (except township of New Holstein), GREEN LAKE (N. part, including Townships of Berlin, St. Marie and Seneca), MARQUETTE (N. part, including Townships of Crystal Lake, Neshkoro, Newton & Springfield), OUTAGAMIE, WAUPACA, WAUSHARA and WINNEBAGO COUNTIES.		Area 15 -	DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES.
Area 2 -	ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Mayville, Colby, Unity, Sherman, Fremont, Lynn and Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST. CROIX, SAWYER, TAYLOR, TREMPLEAU, VERNON and WASHBURN COUNTIES			
Area 3 -	FLORENCE (townships of Aurora, Commonwealth, Fern, Florence and Homestead), MARINETTE (Niagara township)			

FEBRUARY 1999

**NOTICE TO BIDDERS
WAGE RATE DECISION**

The wage rate decision of the Secretary of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Secretary of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate. The higher of state or federal rate will apply.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20150210005PROJECT(S):
5310-02-70
5310-02-73FEDERAL ID(S):
WISC 2015084
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 Contract Items

0010	201.0105 Clearing	9.000 STA	.		.	
0020	201.0120 Clearing	865.000 ID	.		.	
0030	201.0205 Grubbing	9.000 STA	.		.	
0040	201.0220 Grubbing	1,010.000 ID	.		.	
0050	203.0600.S Removing Old Structure Over Waterway With Minimal Debris (station) 01. Station 144+22	LUMP	LUMP		.	
0060	204.0100 Removing Pavement	16,455.000 SY	.		.	
0070	204.0110 Removing Asphaltic Surface	1,915.000 SY	.		.	
0080	204.0115 Removing Asphaltic Surface Butt Joints	413.000 SY	.		.	
0090	204.0120 Removing Asphaltic Surface Milling	18,175.000 SY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0100	204.0130 Removing Curb	100.000				
		LF	.		.	
0110	204.0150 Removing Curb & Gutter	11,665.000				
		LF	.		.	
0120	204.0155 Removing Concrete Sidewalk	6,284.000				
		SY	.		.	
0130	204.0170 Removing Fence	350.000				
		LF	.		.	
0140	204.0195 Removing Concrete Bases	8.000				
		EACH	.		.	
0150	204.0210 Removing Manholes	16.000				
		EACH	.		.	
0160	204.0220 Removing Inlets	41.000				
		EACH	.		.	
0170	204.0235 Removing Buildings (parcel) 01. 3	LUMP	LUMP			.
0180	204.0235 Removing Buildings (parcel) 02. 8	LUMP	LUMP			.
0190	204.0240 Site Clearance (parcel) 01. 3	LUMP	LUMP			.
0200	204.0240 Site Clearance (parcel) 02. 8	LUMP	LUMP			.

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			DOLLARS	CTS	DOLLARS	CTS
0210	204.0245 Removing Storm Sewer (size) 01. 8-Inch	105.000 LF	.		.	
0220	204.0245 Removing Storm Sewer (size) 02. 12-Inch	2,134.000 LF	.		.	
0230	204.0245 Removing Storm Sewer (size) 03. 18-Inch	133.000 LF	.		.	
0240	204.0245 Removing Storm Sewer (size) 04. 24-Inch	635.000 LF	.		.	
0250	204.0245 Removing Storm Sewer (size) 05. 15-Inch	8.000 LF	.		.	
0260	204.0250 Abandoning Manholes	2.000 EACH	.		.	
0270	204.0265 Abandoning Wells	4.000 EACH	.		.	
0280	204.0280 Sealing Pipes	17.000 EACH	.		.	
0290	204.0291.S Abandoning Sewer	22.000 CY	.		.	
0300	204.9090.S Removing (Item Description) 01. Quarry Limestone Retaining Walls	599.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0310	205.0100 Excavation Common	49,807.000 CY	.		.	
0320	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	3,885.000 TON	.		.	
0330	206.1000 Excavation for Structures Bridges (structure) 01. B-13-799	LUMP	LUMP		.	
0340	209.0300.S Backfill Coarse Aggregate (size) 01. No. 2	934.000 CY	.		.	
0350	210.0100 Backfill Structure	335.000 CY	.		.	
0360	213.0100 Finishing Roadway (project) 01. 5310-02-70	1.000 EACH	.		.	
0370	305.0110 Base Aggregate Dense 3/4-Inch	70.000 TON	.		.	
0380	305.0120 Base Aggregate Dense 1 1/4-Inch	32,544.000 TON	.		.	
0390	312.0110 Select Crushed Material	37,167.000 TON	.		.	
0400	405.0100 Coloring Concrete Red	157.400 CY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0410	415.0080 Concrete Pavement 8-Inch	14,635.000 SY	.		.	
0420	415.0410 Concrete Pavement Approach Slab	255.000 SY	.		.	
0430	415.1080 Concrete Pavement HES 8-Inch	500.000 SY	.		.	
0440	416.0160 Concrete Driveway 6-Inch	1,767.000 SY	.		.	
0450	416.0260 Concrete Driveway HES 6-Inch	100.000 SY	.		.	
0460	416.0610 Drilled Tie Bars	97.000 EACH	.		.	
0470	440.4410.S Incentive IRI Ride	6,880.000 DOL	1.00000		6880.00	
0480	455.0105 Asphaltic Material PG58-28	388.000 TON	.		.	
0490	455.0120 Asphaltic Material PG64-28	273.000 TON	.		.	
0500	455.0605 Tack Coat	5,150.000 GAL	.		.	
0510	460.1103 Hma Pavement Type E-3	11,261.000 TON	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0520	460.2000 Incentive Density HMA Pavement	7,245.000 DOL	1.00000		7245.00	
0530	460.4000 HMA Cold Weather Paving	1,620.000 TON	.		.	
0540	465.0105 Asphaltic Surface	33.000 TON	.		.	
0550	465.0110 Asphaltic Surface Patching	25.000 TON	.		.	
0560	465.0120 Asphaltic Surface Driveways and Field Entrances	73.000 TON	.		.	
0570	465.0125 Asphaltic Surface Temporary	610.000 TON	.		.	
0580	502.0100 Concrete Masonry Bridges	585.000 CY	.		.	
0590	502.3200 Protective Surface Treatment	776.000 SY	.		.	
0600	502.5005 Masonry Anchors Type L No. 5 Bars	32.000 EACH	.		.	
0610	505.0405 Bar Steel Reinforcement HS Bridges	12,470.000 LB	.		.	

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WISC 2015084

5310-02-73

N/A

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0620	505.0605 Bar Steel Reinforcement HS Coated Bridges	73,650.000 LB	.		.	
0630	509.5100.S Polymer Overlay	370.000 SY	.		.	
0640	516.0500 Rubberized Membrane Waterproofing	37.000 SY	.		.	
0650	517.1010.S Concrete Staining (structure) 01. B-13-799	690.000 SF	.		.	
0660	517.1050.S Architectural Surface Treatment (structure) 01. B-13-799	690.000 SF	.		.	
0670	520.8000 Concrete Collars for Pipe	9.000 EACH	.		.	
0680	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	1.000 EACH	.		.	
0690	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	2.000 EACH	.		.	
0700	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	1.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0710	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	1.000 EACH	.		.	
0720	522.1060 Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	1.000 EACH	.		.	
0730	532.0200.S Wall Modular Block Gravity	1,532.000 SF	.		.	
0740	550.1120 Piling Steel Hp 12-Inch X 53 Lb	1,560.000 LF	.		.	
0750	601.0409 Concrete Curb & Gutter 30-Inch Type A	6,565.000 LF	.		.	
0760	601.0411 Concrete Curb & Gutter 30-Inch Type D	10,708.000 LF	.		.	
0770	601.0600 Concrete Curb Pedestrian	693.000 LF	.		.	
0780	602.0405 Concrete Sidewalk 4-Inch	60,484.000 SF	.		.	
0790	602.0515 Curb Ramp Detectable Warning Field Natural Patina	604.000 SF	.		.	
0800	602.1500 Concrete Steps	158.000 SF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0810	602.2400 Concrete Safety Islands	432.000 SF	.		.	
0820	606.0100 Riprap Light	104.000 CY	.		.	
0830	606.0200 Riprap Medium	75.000 CY	.		.	
0840	606.0300 Riprap Heavy	982.000 CY	.		.	
0850	608.0312 Storm Sewer Pipe Reinforced Concrete Class Iii 12-Inch	468.000 LF	.		.	
0860	608.0324 Storm Sewer Pipe Reinforced Concrete Class Iii 24-Inch	728.000 LF	.		.	
0870	608.0336 Storm Sewer Pipe Reinforced Concrete Class Iii 36-Inch	698.000 LF	.		.	
0880	608.0412 Storm Sewer Pipe Reinforced Concrete Class Iv 12-Inch	1,369.000 LF	.		.	
0890	608.0418 Storm Sewer Pipe Reinforced Concrete Class Iv 18-Inch	1,131.000 LF	.		.	
0900	608.0424 Storm Sewer Pipe Reinforced Concrete Class Iv 24-Inch	2,741.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
0910	608.0430 Storm Sewer Pipe Reinforced Concrete Class Iv 30-Inch	100.000 LF	.		.	
0920	608.0436 Storm Sewer Pipe Reinforced Concrete Class Iv 36-Inch	171.000 LF	.		.	
0930	608.0460 Storm Sewer Pipe Reinforced Concrete Class Iv 60-Inch	20.000 LF	.		.	
0940	610.0434 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class He-Iv 34x53-Inch	23.000 LF	.		.	
0950	611.0430 Reconstructing Inlets	1.000 EACH	.		.	
0960	611.0645 Inlet Covers Type Ms-A	2.000 EACH	.		.	
0970	611.0651 Inlet Covers Type S	1.000 EACH	.		.	
0980	611.0654 Inlet Covers Type V	3.000 EACH	.		.	
0990	611.1004 Catch Basins 4-Ft Diameter	9.000 EACH	.		.	
1000	611.1230 Catch Basins 2x3-Ft	76.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1010	611.2004 Manholes 4-Ft Diameter	37.000 EACH	.		.	
1020	611.2005 Manholes 5-Ft Diameter	9.000 EACH	.		.	
1030	611.2006 Manholes 6-Ft Diameter	1.000 EACH	.		.	
1040	611.2007 Manholes 7-Ft Diameter	1.000 EACH	.		.	
1050	611.2008 Manholes 8-Ft Diameter	2.000 EACH	.		.	
1060	611.3220 Inlets 2x2-Ft	1.000 EACH	.		.	
1070	611.3230 Inlets 2x3-Ft	7.000 EACH	.		.	
1080	611.3901 Inlets Median 1 Grate	2.000 EACH	.		.	
1090	611.8110 Adjusting Manhole Covers	1.000 EACH	.		.	
1100	611.8120.S Cover Plates Temporary	25.000 EACH	.		.	
1110	611.9800.S Pipe Grates	3.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1120	612.0106 Pipe Underdrain 6-Inch	16,085.000 LF	.		.	
1130	616.0204 Fence Chain Link 4-Ft	350.000 LF	.		.	
1140	616.0700.S Fence Safety	8,400.000 LF	.		.	
1150	618.0100 Maintenance And Repair Of Haul Roads (Project) 01. 5310-02-70	1.000 EACH	.		.	
1160	619.1000 Mobilization	1.000 EACH	.		.	
1170	620.0300 Concrete Median Sloped Nose	955.000 SF	.		.	
1180	623.0200 Dust Control Surface Treatment	27,810.000 SY	.		.	
1190	624.0100 Water	650.000 MGAL	.		.	
1200	625.0100 Topsoil	8,218.000 SY	.		.	
1210	625.0500 Salvaged Topsoil	7,855.000 SY	.		.	
1220	628.1504 Silt Fence	6,460.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1230	628.1520 Silt Fence Maintenance	6,460.000 LF	.		.	
1240	628.1905 Mobilizations Erosion Control	13.000 EACH	.		.	
1250	628.1910 Mobilizations Emergency Erosion Control	13.000 EACH	.		.	
1260	628.2004 Erosion Mat Class I Type B	4,230.000 SY	.		.	
1270	628.2006 Erosion Mat Urban Class I Type A	4,670.000 SY	.		.	
1280	628.2037 Erosion Mat Class Iii Type C	225.000 SY	.		.	
1290	628.6005 Turbidity Barriers	325.000 SY	.		.	
1300	628.7005 Inlet Protection Type A	7.000 EACH	.		.	
1310	628.7015 Inlet Protection Type C	67.000 EACH	.		.	
1320	628.7020 Inlet Protection Type D	51.000 EACH	.		.	
1330	628.7504 Temporary Ditch Checks	27.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1340	628.7555 Culvert Pipe Checks	2.000 EACH	.		.	
1350	628.7560 Tracking Pads	4.000 EACH	.		.	
1360	628.7570 Rock Bags	194.000 EACH	.		.	
1370	629.0210 Fertilizer Type B	12.560 CWT	.		.	
1380	630.0130 Seeding Mixture No. 30	200.000 LB	.		.	
1390	630.0200 Seeding Temporary	272.000 LB	.		.	
1400	631.0300 Sod Water	1,124.000 MGAL	.		.	
1410	631.1000 Sod Lawn	9,428.000 SY	.		.	
1420	633.5200 Markers Culvert End	6.000 EACH	.		.	
1430	634.0614 Posts Wood 4x6-Inch X 14-Ft	82.000 EACH	.		.	
1440	634.0616 Posts Wood 4x6-Inch X 16-Ft	37.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1450	634.0618 Posts Wood 4x6-Inch X 18-Ft	5.000 EACH	.		.	
1460	637.0620 Sign Flags Permanent Type Ii	4.000 EACH	.		.	
1470	637.2210 Signs Type Ii Reflective H	711.010 SF	.		.	
1480	637.2215 Signs Type Ii Reflective H Folding	82.060 SF	.		.	
1490	637.2230 Signs Type Ii Reflective F	115.330 SF	.		.	
1500	638.2102 Moving Signs Type II	6.000 EACH	.		.	
1510	638.2602 Removing Signs Type II	73.000 EACH	.		.	
1520	638.3000 Removing Small Sign Supports	64.000 EACH	.		.	
1530	638.4000 Moving Small Sign Supports	6.000 EACH	.		.	
1540	642.5201 Field Office Type C	1.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1550	643.0200 Traffic Control Surveillance And Maintenance (Project) 01. 5310-02-70	245.000 DAY	.		.	
1560	643.0300 Traffic Control Drums	30,312.000 DAY	.		.	
1570	643.0420 Traffic Control Barricades Type Iii	12,656.000 DAY	.		.	
1580	643.0705 Traffic Control Warning Lights Type A	19,324.000 DAY	.		.	
1590	643.0715 Traffic Control Warning Lights Type C	3,394.000 DAY	.		.	
1600	643.0800 Traffic Control Arrow Boards	12.000 DAY	.		.	
1610	643.0900 Traffic Control Signs	16,099.000 DAY	.		.	
1620	643.0920 Traffic Control Covering Signs Type Ii	20.000 EACH	.		.	
1630	643.1050 Traffic Control Signs PCMS	2,445.000 DAY	.		.	
1640	643.2000 Traffic Control Detour (Project) 01. 5310-02-70	1.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1650	643.3000 Traffic Control Detour Signs	50,631.000 DAY	.		.	
1660	645.0111 Geotextile Fabric Type Df Schedule A	10,545.000 SY	.		.	
1670	645.0112 Geotextile Fabric Type Df Schedule B	665.000 SY	.		.	
1680	645.0120 Geotextile Fabric Type Hr	1,615.000 SY	.		.	
1690	645.0130 Geotextile Fabric Type R	624.000 SY	.		.	
1700	646.0106 Pavement Marking Epoxy 4-Inch	26,275.000 LF	.		.	
1710	646.0126 Pavement Marking Epoxy 8-Inch	1,590.000 LF	.		.	
1720	646.0600 Removing Pavement Markings	27,025.000 LF	.		.	
1730	647.0110 Pavement Marking Railroad Crossings Epoxy	2.000 EACH	.		.	
1740	647.0166 Pavement Marking Arrows Epoxy Type 2	40.000 EACH	.		.	
1750	647.0356 Pavement Marking Words Epoxy	4.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1760	647.0456 Pavement Marking Curb Epoxy	470.000 LF	.		.	
1770	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	700.000 LF	.		.	
1780	647.0606 Pavement Marking Island Nose Epoxy	14.000 EACH	.		.	
1790	647.0726 Pavement Marking Diagonal Epoxy 12-Inch	297.000 LF	.		.	
1800	647.0766 Pavement Marking Crosswalk Epoxy 6-Inch	3,831.000 LF	.		.	
1810	647.0955 Removing Pavement Markings Arrows	11.000 EACH	.		.	
1820	649.0100 Temporary Pavement Marking 4-Inch	26,535.000 LF	.		.	
1830	649.0300 Temporary Pavement Marking Reflective Tape 4-Inch	3,700.000 LF	.		.	
1840	649.0701 Temporary Pavement Marking 8-Inch	430.000 LF	.		.	
1850	649.1100 Temporary Pavement Marking Stop Line 18-Inch	60.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
1860	649.1700 Temporary Pavement Marking Arrows	11.000 EACH	.		.	
1870	650.4000 Construction Staking Storm Sewer	145.000 EACH	.		.	
1880	650.4500 Construction Staking Subgrade	8,131.000 LF	.		.	
1890	650.5000 Construction Staking Base	5,169.000 LF	.		.	
1900	650.5500 Construction Staking Curb Gutter And Curb & Gutter	11,401.000 LF	.		.	
1910	650.6500 Construction Staking Structure Layout (Structure) 01. B-13-799	LUMP	LUMP		.	
1920	650.7000 Construction Staking Concrete Pavement	3,989.000 LF	.		.	
1930	650.8000 Construction Staking Resurfacing Reference	3,773.000 LF	.		.	
1940	650.8500 Construction Staking Electrical Installations (Project) 01. 5310-02-70 Signals	LUMP	LUMP		.	
1950	650.8500 Construction Staking Electrical Installations (Project) 02. 5310-02-70 Lighting	LUMP	LUMP		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1960	650.9910 Construction Staking Supplemental Control (Project) 01. 5310-02-70	LUMP	LUMP			.
1970	650.9920 Construction Staking Slope Stakes	8,261.000 LF	.		.	
1980	652.0125 Conduit Rigid Metallic 2-Inch	24.000 LF	.		.	
1990	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	7,886.000 LF	.		.	
2000	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	4,409.000 LF	.		.	
2010	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	4,010.000 LF	.		.	
2020	652.0800 Conduit Loop Detector	2,435.000 LF	.		.	
2030	653.0140 Pull Boxes Steel 24x42-Inch	62.000 EACH	.		.	
2040	654.0101 Concrete Bases Type 1	14.000 EACH	.		.	
2050	654.0102 Concrete Bases Type 2	8.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2060	654.0200 Concrete Control Cabinet Bases Type 6	2.000 EACH	.		.	
2070	654.0217 Concrete Control Cabinet Bases Type 9 Special	2.000 EACH	.		.	
2080	655.0260 Cable Traffic Signal 12-14 Awg	4,559.000 LF	.		.	
2090	655.0610 Electrical Wire Lighting 12 Awg	1,135.000 LF	.		.	
2100	655.0615 Electrical Wire Lighting 10 Awg	26,998.000 LF	.		.	
2110	655.0620 Electrical Wire Lighting 8 Awg	23,719.000 LF	.		.	
2120	655.0625 Electrical Wire Lighting 6 Awg	9,846.000 LF	.		.	
2130	655.0630 Electrical Wire Lighting 4 Awg	27,545.000 LF	.		.	
2140	655.0635 Electrical Wire Lighting 2 Awg	3,876.000 LF	.		.	
2150	655.0700 Loop Detector Lead In Cable	6,719.000 LF	.		.	
2160	655.0800 Loop Detector Wire	5,483.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2170	655.0900 Traffic Signal Evp Detector Cable	845.000 LF	.		.	
2180	656.0100 Electrical Service Meter Socket (Location) 01. Ush 14 And Cth P	LUMP	LUMP		.	
2190	656.0100 Electrical Service Meter Socket (Location) 02. Ush 14 And Brewery Road	LUMP	LUMP		.	
2200	656.0200 Electrical Service Meter Breaker Pedestal (Location) 01. Ush 14 And Cth P	LUMP	LUMP		.	
2210	656.0200 Electrical Service Meter Breaker Pedestal (Location) 02. Ush 14 And Brewery Road	LUMP	LUMP		.	
2220	656.0200 Electrical Service Meter Breaker Pedestal (Location) 03. Sta 127+45.7, 41.0 'Lt	LUMP	LUMP		.	
2230	656.0200 Electrical Service Meter Breaker Pedestal (Location) 04. Sta 146+68.5, 63.5' Rt	LUMP	LUMP		.	
2240	656.0500 Electrical Service Breaker Disconnect Box (Location) 01. Ush 14 And Cth P	LUMP	LUMP		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2250	656.0500 Electrical Service Breaker Disconnect Box (Location) 02. Ush 14 And Brewery Road	LUMP	LUMP			.
2260	657.0100 Pedestal Bases	11.000 EACH	.		.	
2270	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	5.000 EACH	.		.	
2280	657.0310 Poles Type 3	9.000 EACH	.		.	
2290	657.0415 Traffic Signal Standards Aluminum 11-Ft	5.000 EACH	.		.	
2300	657.0420 Traffic Signal Standards Aluminum 13-Ft	6.000 EACH	.		.	
2310	657.0425 Traffic Signal Standards Aluminum 15-Ft	2.000 EACH	.		.	
2320	657.0585 Trombone Arms 15-Ft	3.000 EACH	.		.	
2330	657.0590 Trombone Arms 20-Ft	3.000 EACH	.		.	
2340	657.0595 Trombone Arms 25-Ft	2.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2350	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-Ft	10.000 EACH	.		.	
2360	658.0110 Traffic Signal Face 3-12 Inch Vertical	17.000 EACH	.		.	
2370	658.0115 Traffic Signal Face 4-12 Inch Vertical	4.000 EACH	.		.	
2380	658.0155 Traffic Signal Face 3-12 Inch Horizontal	2.000 EACH	.		.	
2390	658.0215 Backplates Signal Face 3 Section 12-Inch	19.000 EACH	.		.	
2400	658.0220 Backplates Signal Face 4 Section 12-Inch	4.000 EACH	.		.	
2410	658.0500 Pedestrian Push Buttons	13.000 EACH	.		.	
2420	658.0635 Led Modules Pedestrian Countdown Timer 16-Inch	13.000 EACH	.		.	
2430	658.5069 Signal Mounting Hardware (Location) 01. Cth P	LUMP	LUMP		.	
2440	658.5069 Signal Mounting Hardware (Location) 02. Brewery Road	LUMP	LUMP		.	
2450	659.1115 Luminaires Utility Led A	10.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2460	661.0200 Temporary Traffic Signals For Intersections (Location) 01. Ush 14 With Brewery Road	LUMP	LUMP			.
2470	690.0150 Sawing Asphalt	3,774.000 LF	.		.	
2480	690.0250 Sawing Concrete	178.000 LF	.		.	
2490	715.0415 Incentive Strength Concrete Pavement	1,010.000 DOL	1.00000		1010.00	
2500	715.0502 Incentive Strength Concrete Structures	3,510.000 DOL	1.00000		3510.00	
2510	ASP.1T0A On-The-Job Training Apprentice At \$5.00/Hr	3,500.000 HRS	5.00000		17500.00	
2520	ASP.1T0G On-The-Job Training Graduate At \$5. 00/Hr	2,000.000 HRS	5.00000		10000.00	
2530	SPV.0035 Special 01. Select Backfill	7,500.000 CY	.		.	
2540	SPV.0035 Special 02. Coloring Concrete Tan	95.000 CY	.		.	
2550	SPV.0045 Special 01. Seismograph Special	250.000 DAY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2560	SPV.0060 Special 01. Storm Sewer Tap	7.000 EACH	.		.	
2570	SPV.0060 Special 03. Lighting Control Cabinet	2.000 EACH	.		.	
2580	SPV.0060 Special 04. Decorative Lighting Assembly Lm-Sa	11.000 EACH	.		.	
2590	SPV.0060 Special 05. Decorative Lighting Assmebly Lm-Sb	19.000 EACH	.		.	
2600	SPV.0060 Special 06. Decorative Lighting Assembly Lm-Sc	14.000 EACH	.		.	
2610	SPV.0060 Special 07. Decorative Lighting Assembly Lm-Da	12.000 EACH	.		.	
2620	SPV.0060 Special 09. Manhole Covers Special Solid	39.000 EACH	.		.	
2630	SPV.0060 Special 10. Inlet Covers Special	24.000 EACH	.		.	
2640	SPV.0060 Special 11. Inlet Covers Special Type L	80.000 EACH	.		.	
2650	SPV.0060 Special 12. Street Lighting Concrete Bases	56.000 EACH	.		.	
2660	SPV.0060 Special 13. Cover Plates Permanent	2.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2670	SPV.0060 Special 14. Leopold Bench	1.000 EACH	.		.	
2680	SPV.0060 Special 15. Boot Brush	1.000 EACH	.		.	
2690	SPV.0060 Special 16. Sanitary Service Lateral Wyes 18-Inch X 8-Inch	2.000 EACH	.		.	
2700	SPV.0060 Special 17. Existing Sanitary Sewer Connections	16.000 EACH	.		.	
2710	SPV.0060 Special 18. Sanitary Service Lateral Wyes 18-Inch X 6-Inch	61.000 EACH	.		.	
2720	SPV.0060 Special 19. Sanitary Service Lateral Caps	30.000 EACH	.		.	
2730	SPV.0060 Special 20. Sanitary Service Lateral Connections	40.000 EACH	.		.	
2740	SPV.0060 Special 21. Sanitary Service Lateral Tracing Systems	67.000 EACH	.		.	
2750	SPV.0060 Special 22. Sanitary Manhole Removal	28.000 EACH	.		.	
2760	SPV.0060 Special 23. Sanitary Manhole Castings	29.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2770	SPV.0060 Special 24. Sanitary Manhole Chimney Seals, External	28.000 EACH	.		.	
2780	SPV.0060 Special 25. Water Main Offset 12-Inch Brewery Creek	1.000 EACH	.		.	
2790	SPV.0060 Special 26. Water Main Insulation	1.000 EACH	.		.	
2800	SPV.0060 Special 27. Existing Water Main Connections	11.000 EACH	.		.	
2810	SPV.0060 Special 28. Gate Valves And Boxes 12-Inch	21.000 EACH	.		.	
2820	SPV.0060 Special 29. Gate Valves And Boxes 8-Inch	11.000 EACH	.		.	
2830	SPV.0060 Special 30. Gate Valves And Boxes 6-Inch	16.000 EACH	.		.	
2840	SPV.0060 Special 31. Gate Valves And Boxes 4-Inch	2.000 EACH	.		.	
2850	SPV.0060 Special 32. Abandon Gate Valves And Boxes	20.000 EACH	.		.	
2860	SPV.0060 Special 33. Existing Hydrant Removals	9.000 EACH	.		.	
2870	SPV.0060 Special 34. New Hydrants	17.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2880	SPV.0060 Special 35. Corporation Stops 1-Inch	65.000 EACH	.		.	
2890	SPV.0060 Special 36. Corporation Stops 2-Inch	2.000 EACH	.		.	
2900	SPV.0060 Special 37. Curb Stops 1-Inch	65.000 EACH	.		.	
2910	SPV.0060 Special 38. Curb Stops 2-Inch	2.000 EACH	.		.	
2920	SPV.0060 Special 39. Water Service Lateral Reconnections	63.000 EACH	.		.	
2930	SPV.0060 Special 45. Traffic Signalpreempt Intersection Of Ush 14/ Brewery Road	1.000 EACH	.		.	
2940	SPV.0060 Special 46. Traffic Signal Preempt Intersection Of Ush 14/Cth P	1.000 EACH	.		.	
2950	SPV.0060 Special 48. Sanitary Service Lateral Wyes 15-Inch X 6-Inch	2.000 EACH	.		.	
2960	SPV.0060 Special 49. Sanitary Service Lateral Wyes 12-Inch X 6-Inch	2.000 EACH	.		.	
2970	SPV.0060 Special 50. Sanitary Service Lateral Wyes 8-Inch X 6-Inch	2.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
2980	SPV.0060 Special 51. Temporary Curb Ramp	95.000 EACH	.		.	
2990	SPV.0060 Special 52. Construction Staking Curb Ramp	64.000 EACH	.		.	
3000	SPV.0060 Special 53. Adjusting Monitoring Well	4.000 EACH	.		.	
3010	SPV.0060 Special 54. Crack And Damage Survey Special	22.000 EACH	.		.	
3020	SPV.0060 Special 55. Tree Trimming	5.000 EACH	.		.	
3030	SPV.0060 Special 56. Water Main Offset 12-Inch Under Enchanted Valley Drainageway Box Culvert	1.000 EACH	.		.	
3040	SPV.0060 Special 57. Salvage & Reinstall Landscaping Materials	23.000 EACH	.		.	
3050	SPV.0085 Special 01. Bar Steel Reinforcement Hs Stainless Bridges	3,140.000 LB	.		.	
3060	SPV.0090 Special 01. Asphalt Joint Adhesive	11,187.000 LF	.		.	
3070	SPV.0090 Special 02. Sanitary Sewer Pvc 18-Inch 13 Feet Depth Or Less	1,662.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
3080	SPV.0090 Special 03. Sanitary Sewer Pvc 18-Inch 13 Feet Depth To 16 Feet Depth	1,477.000 LF	.		.	
3090	SPV.0090 Special 04. Sanitary Sewer Pvc 18-Inch 16 Feet Depth Or Greater	556.000 LF	.		.	
3100	SPV.0090 Special 05. Sanitary Sewer Pvc 15-Inch	893.000 LF	.		.	
3110	SPV.0090 Special 06. Sanitary Sewer Pvc 12-Inch	1,293.000 LF	.		.	
3120	SPV.0090 Special 07. Sanitary Sewer Pvc 8-Inch	246.000 LF	.		.	
3130	SPV.0090 Special 08. Steel Casing 24-Inch By Open Cut Methods	198.000 LF	.		.	
3140	SPV.0090 Special 09. Water Main Ductile Iron 12-Inch	6,031.000 LF	.		.	
3150	SPV.0090 Special 10. Water Main Ductile Iron 8-Inch	442.000 LF	.		.	
3160	SPV.0090 Special 11. Water Main Ductile Iron 6-Inch	364.000 LF	.		.	
3170	SPV.0090 Special 12. Water Main Ductile Iron 4-Inch	90.000 LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
3180	SPV.0090 Special 13. Water Service Laterals 1-Inch	2,016.000 LF	.		.	
3190	SPV.0090 Special 14. Water Service Laterals 2-Inch	129.000 LF	.		.	
3200	SPV.0090 Special 15. Sanitary Service Lateral Pvc 6-Inch	2,253.000 LF	.		.	
3210	SPV.0090 Special 16. Sanitary Service Lateral Pvc 8-Inch	67.000 LF	.		.	
3220	SPV.0090 Special 17. Pedestrian Safety Barrier	13,940.000 LF	.		.	
3230	SPV.0090 Special 18. Steel Casing 24-Inch By Boring	29.000 LF	.		.	
3240	SPV.0090 Special 19. Construction Staking Sidewalk	10,526.000 LF	.		.	
3250	SPV.0090 Special 20. Construction Staking Wall Modular Block Gravity	535.000 LF	.		.	
3260	SPV.0105 Special 01. Salvage Fishery Sign	LUMP	LUMP		.	
3270	SPV.0105 Special 02. Research And Locate Existing Property Monuments	LUMP	LUMP		.	

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20150210005PROJECT(S):
5310-02-70
5310-02-73FEDERAL ID(S):
WISC 2015084
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3280	SPV.0105 Special 03. Verify And Replace Existing Property Monuments	LUMP	LUMP			.
3290	SPV.0105 Special 04. Concrete Pavement Joint Layout	LUMP	LUMP			.
3300	SPV.0105 Special 05. Timber Steps	LUMP	LUMP			.
3310	SPV.0105 Special 06. Temporary Crosswalk Access (Ush 14 And Water Street)	LUMP	LUMP			.
3320	SPV.0105 Special 07. Temporary Crosswalk Access (Ush 14 And Center Street)	LUMP	LUMP			.
3330	SPV.0105 Special 08. Temporary Crosswalk Access (Ush 14 And Spring Street)	LUMP	LUMP			.
3340	SPV.0105 Special 09. Temporary Crosswalk Access (Ush 14 And East Street)	LUMP	LUMP			.
3350	SPV.0105 Special 10. Temporary Crosswalk Access (Ush 14 And Maple Street)	LUMP	LUMP			.
3360	SPV.0105 Special 11. Temporary Crosswalk Access (Ush 14 And Hickory Street)	LUMP	LUMP			.

SCHEDULE OF ITEMS

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3370	SPV.0105 Special 12. Temporary Crosswalk Access (Ush 14 And Wilson Street)	LUMP	LUMP			.
3380	SPV.0105 Special 13. Temporary Crosswalk Access (Ush 14 And Mill Street)	LUMP	LUMP			.
3390	SPV.0105 Special 14. Temporary Crosswalk Access (Ush 14 And American Legion Drive)	LUMP	LUMP			.
3400	SPV.0105 Special 15. Temporary Crosswalk Access (Ush 14 And Caesar Street)	LUMP	LUMP			.
3410	SPV.0105 Special 16. Temporary Crosswalk Access (Ush 14 And Jovina Street)	LUMP	LUMP			.
3420	SPV.0105 Special 17. Temporary Crosswalk Access (Ush 14 And Valley Street)	LUMP	LUMP			.
3430	SPV.0105 Special 18. Temporary Crosswalk Access (Ush 14 And Eulalia Street)	LUMP	LUMP			.
3440	SPV.0105 Special 19. Temporary Crosswalk Access (Ush 14 And Cth P)	LUMP	LUMP			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3450	SPV.0105 Special 20. Temporary Crosswalk Access (Ush 14 And Glaciers Edge Square)	LUMP	LUMP			.
3460	SPV.0105 Special 21. Temporary Crosswalk Access (Ush 14 And Brewery Road)	LUMP	LUMP			.
3470	SPV.0105 Special 22. Railing Steel Type C3 Galvanized B-13-799	LUMP	LUMP			.
3480	SPV.0105 Special 23. Removing Traffic Signals Cth P & Ush 14 Intersection	LUMP	LUMP			.
3490	SPV.0105 Special 24. Dewatering	LUMP	LUMP			.
3500	SPV.0105 Special 26. Maintaining And Removing Temporary Traffic Signal (Ush 14 And Cth P)	LUMP	LUMP			.
3510	SPV.0105 Special 27. Maintaining And Removing Temporary Traffic Signal (Cth P And Bourbon Road)	LUMP	LUMP			.
3520	SPV.0105 Special 28. Maintaining And Removing Temporary Traffic Signal (Cth Kp And Bourbon Road)	LUMP	LUMP			.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3530	SPV.0105 Special 29. Maintaining And Removing Temporary Traffic Sig Hillebrand Dr And Bourbon Rd	LUMP	LUMP		.	
3540	SPV.0105 Special 30. Construction Staking Storm Sewer Water Basin	LUMP	LUMP		.	
3550	SPV.0105 Special 31. Temporary Water System	LUMP	LUMP		.	
3560	SPV.0165 Special 02. Colored And Stamped Concrete	2,135.000 SF	.		.	
3570	SPV.0165 Special 03. Thermoplastic Asphalt Crosswalk	597.000 SF	.		.	
3580	SPV.0180 Special 01. Geogrid Reinforcement	48,270.000 SY	.		.	
3590	SPV.0180 Special 02. Temporary Pedestrian/Bicycle Access	3,800.000 SY	.		.	
3600	SPV.0195 Special 01. Temporary Access Base Aggregate Dense 1 1/4-Inch	5,000.000 TON	.		.	
3610	SPV.0200 Special 01. Sanitary Service Lateral Risers	246.000 VF	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3620	SPV.0200 Special 02. Standard Sanitary Manhole Masonry 48-Inch Diameter	263.930 VF	.		.	
3630	SPV.0200 Special 03. Drop Sanitary Manhole Masonry 48-Inch Diameter	63.350 VF	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	

PLEASE ATTACH SCHEDULE OF ITEMS HERE