HIGHWAY WORK PROPOSAL

Proposal Number: Ø 4

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

COUNTY	STATE PROJECT ID	FEDERAL PROJECT ID	PROJECT DESCRIPTION	HIGHWAY
Crawford	1661-05-78	WISC 2016 002	Prairie du Chien Bypass/ S Town-STH 60 South Town Lane Ely to STH 60	USH 18
Crawford	1661-05-80		Prairie du Chien Bypass/ South Town Lane Ely to STH 60 Salt Storage Facility	USH 18
Crawford	1661-05-88		Prairie du Chien Bypass/ S Town-STH 60 South Town Lane Ely to STH 60 Const Ops/Sanitary Sewer - Water Main	USH 18

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, $ 450,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: January 12, 2016 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code **SAMPLE** **NOT FOR BIDDING PURPOSES**
Contract Completion Time May 25, 2017	
Assigned Disadvantaged Business Enterprise Goal 8%	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 Structures B-12-0184, B-12-0187, B-12-0188, C-12-0167, B-12-0093, R-12-0050, S-12-0012, S-12-0013, common excavation, rock excavation, concrete pavement, HMA pavement, curb and gutter, storm sewer, aggregate base dense, select crushed material, pavement marking, signing, water main, sanitary sewer, and salt storage facility.	
Notice of Award Dated	Date Guaranty Returned

PLEASE ATTACH
PROPOSAL GUARANTY HERE

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

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

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

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

(3) The department will provide bidding information through the department's web site at:
http://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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

or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the departments web site listed above or by picking up the addenda at the Bureau of Highway Construction, Room 601, 4802 Sheboygan Avenue, Madison, WI, during regular business hours.

(7) Addenda posted after 5:00 PM on the Thursday before the letting will be emailed to the eligible bidders for that proposal. All eligible bidders shall acknowledge receipt of the addenda whether they are bidding on the proposal or not. Not acknowledging receipt may jeopardize the awarding of the project.

B Submitting Electronic Bids

B.1 On the Internet

(1) Do the following before submitting the bid:

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

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

1. Download the latest schedule of items reflecting all addenda from the Bid Express web site.
2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
4. Submit the bid before the hour and date the Notice to Contractors designates.
5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.

(3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

B.2 On a Printout with Accompanying Diskette or CD ROM

(1) Download the latest schedule of items from the Wisconsin pages of the Bid Express™ web site reflecting the latest addenda posted on the department's web site at:

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

Use Expedite ™ software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid Express™ web site to assure that the schedule of items is prepared properly.

(2) Staple an 8 1/2 by 11 inch printout of the Expedite™ generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the Expedite™ generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder

Name

BN00

Proposals: 1, 12, 14, & 22

(3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.

(4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.

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

1. The check code printed on the bottom of the printout of the Expedite™ generated schedule of items is not the same on each page.
2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.
3. The diskette or CD ROM is not submitted at the time and place the department designates.

C Waiver of Electronic Submittal

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

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

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

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

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

PROPOSAL BID BOND

Wisconsin Department of Transportation

DT1303 1/2006

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

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

(Signature of Attorney-in-Fact)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

Wisconsin Department of Transportation

DT1305 8/2003

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

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

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

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

(Signature of Authorized Contractor Representative) (Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

Name of Subcontractor	Class of Work	Estimated Value

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1661-05-78, Prairie du Chien Bypass, South Town Lane Ely to STH 60, USH 18; Project 1661-05-80, Prairie du Chien Bypass/S Town-STH 60, South Town Lane Ely to STH 60, Salt Storage Facility, USH 18; Project 1661-05-88, Prairie du Chien Bypass/S Town-STH 60, South Town Lane Ely to STH 60, Const Ops/Sanitary Sewer – Water Main, USH 18, Crawford 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, 2016 Edition, as published by the department, and these special provisions.

The "Standard Specifications for Sewer and Water Construction in Wisconsin", Sixth Edition, December 22, 2003 with Addendum No. 1, December 22, 2004, will govern the sanitary sewer and water main utility construction if a specific item is not covered in these special provisions. It is the responsibility of the contractor to obtain copies of both the "Standard Specifications" and the "State Specifications". If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

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.

2. Scope of Work.

The work under this contract shall consist of Structures B-12-0184, B-12-0187, B-12-0188, C-12-0167, B-12-0093, R-12-0050, S-12-0012, S-12-0013, common excavation, rock excavation, concrete pavement, HMA pavement, curb and gutter, storm sewer, aggregate base dense, select crushed material, pavement marking, signing, sanitary sewer, water main, salt storage facility, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.
104-005 (20090901)

3. Prosecution and Progress.

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

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

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

Northern Long-eared Bat (Myotis septentrionalis)
Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees and structures (bridges, culverts, buildings). Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the Federal Endangered Species Act.

In order to avoid adverse impacts upon the NLEBs, no vegetation clearing and grubbing within the identified clearing and grubbing limits will be allowed from April 1 to September 30, both dates inclusive.

If the required clearing and removal is not completed by March 31, the department will suspend all clearing and associated work directly impacted by clearing. The department will issue a notice to proceed with clearing and associated work directly impacted by clearing after consulting with the United States Fish and Wildlife Service (USFWS).

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

Notify the Project Leader 14 days in advance of any work on box culverts or bridges between April 1 and September 30 to allow time for department to complete the Bat Presence Structure Inspection Form.

If bats or evidence of bats are not found during the inspection, construction may proceed.

If bats or evidence of bats are found during the inspection, construction activities affecting the structure's roosting potential must stop until the WisDOT Regional Environmental Coordinator completes consultation with the Wisconsin Department of Natural Resources (WDNR) and/or United States Fish and Wildlife Service (USFWS).

Winter Shutdown
The completion of project 1661-05-78 as shown in the plans for stages 1 and 2 prior to Winter Shutdown is based on an expedited work schedule and may require extraordinary forces and equipment.

The schedule of operations as required under standard spec 108.9.2 shall provide for opening USH 18 to traffic as is shown in the plans.

Winter Shutdown will commence with the completion of Stage 2 in the fall of 2016. Do not resume work until March 13, 2017 unless approved by the engineer. Provide a start

date in writing at least 14 days prior to the planned start of construction in 2017. Upon approval the engineer will issue the notice to proceed within 10 days of the approved start date.

Project 1661-05-78:

Complete all work in Stages 1 and 2 as shown in the plans, including grading, pavements, curb and gutter, storm sewer, culverts, driveways, side roads, pavement marking, signing and landscaping, prior to 12:01 AM November 12, 2016.

If the contractor fails to complete the necessary contract work included in Stages 1 and 2 prior to 12:01 AM November 12, 2016, the department will assess the contractor $1,940 in interim liquidated damages for each calendar day that Stages 1 and 2 remain uncompleted after 12:01 AM November 12, 2016. An entire calendar day will be charged for any period of time within a calendar day that Stages 1 and 2 remain uncompleted beyond 12:01 AM.

The department will not grant time extensions to the interim completion dates specified above for the following:

1. Severe weather as specified in standard spec 108.10.2.2.
2. Labor disputes that are not industry wide.
3. Delays in material deliveries.

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

Schedule of Operations

The schedule of operations shall conform to the requirements described below, unless modifications are approved in writing by the engineer.

Pre-Stage 1 activities include:

- Install PCMS 2 weeks prior to construction.

Stage 1A activities include:

- Place Stage 1 Traffic Control.
- Construct temporary widening and temporary crossovers at locations shown in the plans.

Stage 1B activities include:

- Construct the water main and casing pipe under the westbound lanes.
- Construct westbound lanes from Sta 200+71WB to Sta 325+50WB.
- Construct eastbound lanes from Sta 324+00EB to Sta 359+75EB.
- Construct Sugarloaf Trail, Cabin Hill Lane from Sta 47+50CH to Sta 49+00CH, Haven Drive, Church entrance, Utopia Lane, and Golf View Drive while open to local traffic.
- Construct Old Hwy 18 (West leg), Cabin Hill Lane from Sta 38+14CH to Sta 47+50CH, and Frontage Road while closed to traffic.

- Construct Ward Road and Bouska Road on an open/close alternating basis.
- Construct north half of structures B-12-0184, B-12-0187 and B-12-0188.
- Construct structure C-12-0167.
- Construct retaining wall R-12-0050.

Stage 2A activities include:

- Place Stage 2 Traffic Control.
- Construct the sanitary sewer, water main and casing pipe under the eastbound lanes.
- Construct the multi-use path from South Town Lane to Sugarloaf Trail.
- Construct eastbound lanes from Sta 200+12EB to Sta 324+00EB.
- Construct westbound lanes from Sta 325+50WB to Sta 359+75WB.
- Construct Cabin Hill Lane connection road and Old Hwy 18 (East leg) on an open/close alternating basis.
- Construct Upper Bridgeport Road (West leg) and Upper Bridgeport Road (East leg) on an open/close alternating basis.
- Construct the new realigned STH 60 from Sta 163+57 to USH 18 while Upper Bridgeport Road (East leg) is closed to traffic.
- Construct the east side of STH 60 from Sta 163+57 to Sta 170+32 while Upper Bridgeport Road (West leg) is closed to traffic.
- Construct south half of structures B-12-0184, B-12-0187 and B-12-0188.
- After the westbound pavement has been placed construct the temporary crossover between Sta 356+58EB and 358+61EB.

Stage 2B activities include:

- Construct STH 60 right turn ramp.
- Construct the west half of STH 60 from Sta 164+50 to Sta 170+32 while open to traffic utilizing one lane operations with flaggers.
- Construct Old Hwy 60 while closed to traffic.

Stage 2C activities include:

- Place Stage 2C Traffic Control, including permanent signing and pavement marking, for winter shut down as shown in the plans.

Stage 3A activities include:

- Place Stage 3A Traffic Control.
- Construct the north half of the paving notch on structure B-12-0093.
- Construct westbound lane from Sta 359+75WB to the Wisconsin River Bridge as a one lane operation utilizing temporary traffic signals.

Stage 3B activities include:

- Place Stage 3B Traffic Control.
- Construct the south half of the paving notch on structure B-12-0093.
- Construct eastbound lane from Sta 359+75EB to the Wisconsin River Bridge as a one lane operation utilizing temporary traffic signals.

Stage 4 activities include:

- Construct the medians as shown in the plans.
- Construct structures S-12-0012 and S-12-0013.

Work Restrictions

Comply with all local ordinances which apply to work operations, including those pertaining to working during nighttime work hours. Furnish in writing three working days before performing such work any ordinance variance issued by the municipality or required permits.

Where lane closure(s) has been permitted by the engineer in conjunction with the contactor's work schedule, make a continuous effort to complete the work within said lane closure(s) in a timely manner.

Project 1661-05-80:

Complete all work included under Project 1661-05-80 prior to 12:01 AM July 23, 2016,

If the contractor fails to complete all work included under Project 1661-05-80 prior to 12:01 AM July 23, 2016, the department will assess the contractor $780.00 in liquidated damages for each calendar day that work under Project 1661-05-80 remains incomplete after 12:01 AM July 23, 2016. An entire calendar day will be charged for any period of time within a calendar day that work under Project 1661-05-80 remains incomplete beyond 12:01 AM.

The department will not grant time extensions to the interim completion dates specified above for the following:

1. Severe weather as specified in standard spec 108.10.2.2.
2. Labor disputes that are not industry wide.
3. Delays in material deliveries.

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

4. Traffic.

Project 1661-05-78 and Project 1661-05-88

The traffic control shall be staged and signed as shown in the plans.

USH 18 shall be open to two lanes of traffic during Stages 1, 2 and 4, as shown in the traffic control plans, at all times during construction operations under this contract. During Stage 3, USH 18 between Upper Bridgeport Road (East leg) and the Wisconsin River Bridge shall be open to one lane of traffic utilizing temporary signals as shown in the plans.

STH 60 shall be open to two lanes of traffic during Stages 1, 2A, 2C, 3 and 4, as shown in the traffic control plans, at all times during construction operations under this contract. During Stage 2B, STH 60 between Station 164+50 and Station 170+32 shall be open to one lane of traffic during daylight hours utilizing flaggers. STH 60 shall be opened to two lanes of traffic during nighttime and non-working hours.

Existing access to all properties adjacent to the project site shall be provided and maintained on one 12-foot graveled lane of travel at all times during construction unless written permission for temporary closure is provided by the engineer. Notify residents two business days in advance of temporarily closing their driveways. Multiple driveways serving a property shall not be closed at the same time. The driveways shall be constructed on an open/close alternating basis. Single driveways serving a property shall be either constructed one half at a time or a temporary gravel driveway constructed adjacent to the existing driveway or as directed by the engineer. Inform local residents and businesses as frequently as necessary of access changes due to construction operations.

Construction operations shall be conducted in such a manner as to provide access to emergency vehicles at all times.

The intersections at USH 18/Ward Road and USH 18/Bouska Road shall not be closed to traffic at the same time and shall be constructed on an open/close alternating basis during Stage 1. When USH 18/Ward Road is closed to traffic USH 18/Bouska Road shall remain open to traffic. When USH 18/Bouska Road is closed to traffic USH 18/Ward Road shall remain open to traffic and signed as shown in the traffic control plans. Staging operations shall be conducted such that the USH 18/Bouska Road intersection shall be opened to traffic between Sunday July 31, 2016 and Sunday August 8, 2016 for the Country On The River Music Festival. Temporary left turn lane pavement markings on eastbound USH 18 at Bouska Road, as shown in the plans, shall be installed and in place between July 31, 2016 and August 8, 2016. After August 8, 2016 the temporary left turn lane pavement markings shall be removed.

The intersections at USH 18/Old Hwy 18 (west intersection) and USH 18/Old Hwy 18 (east intersection) shall not be closed to traffic at the same time and shall be constructed on an open/close alternating basis during Stage 2. When USH 18/Old Hwy 18 (west intersection) is closed to traffic USH 18/Old Hwy 18 (east intersection) shall remain open to traffic. When USH 18/Old Hwy 18 (east intersection) is closed to traffic USH 18/ Old Hwy 18 (west intersection) shall remain open to traffic and signed as shown in the traffic control plans.

The intersections at STH 60/Upper Bridgeport Road (west leg) and USH 18/Upper Bridgeport Road (east leg) shall not be closed to traffic at the same time and shall be constructed on an open/close alternating basis during Stage 2. When STH 60/Upper Bridgeport Road (west leg) is closed to traffic USH 18/Upper Bridgeport Road (east leg) shall remain open to traffic. When USH 18/Upper Bridgeport Road (east leg) is closed to traffic STH 60/Upper Bridgeport Road (west leg) shall remain open to traffic and signed as shown in the traffic control plans.

The following intersections and side roads within the project limits shall remain open to traffic during construction:

1. Sugarloaf Trail
2. Cabin Hill Lane from Station 47+50CH to Station 49+00CH
3. Church Entrance
4. Utopia Lane
5. Golf View Drive from Station 118+00GV to Station 120+25GV
6. Golf View Drive from Station 124+00GV to Station 127+00GV

A third flag person is required at all moving construction operations involving milling, paving, and shouldering. The third flag person is required to be located at the area of the moving operation to safely guide traffic around the equipment and personnel working at the moving operation. When determined by the engineer, additional flagging operations shall be required at each intersection listed above while construction operations require a one lane operation through the intersection.

Wisconsin Lane Closure System Advance Notification.

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction ≤16')	MINIMUM NOTIFICATION
Lane and shoulder closures	14 calendar days
Full roadway closures	14 calendar days
System and service ramp closures	14 calendar days
Full system and service ramp closures	14 calendar days
Detours	14 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction >16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
System and service ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.
108-057 (20150630)

Project 1661-05-80

Work under this project will be conducted off the state highway system and will not require traffic control.

Obtain prior approval from the engineer for the location of egress and ingress for construction vehicles to prosecute the work.

The traffic requirements are subject to change at the direction of the engineer in the event of an emergency.

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 18 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:

7. From noon Friday, May 27, 2016 to 6:00 AM Tuesday, May 31, 2016 for Memorial Day;
8. From noon Wednesday, August 3, 2016 to 6:00 AM Monday, August 8, 2016 for Country On The River Music Festival;
9. From noon Friday, July 1, 2016 to 6:00 AM Tuesday, July 5, 2016 for Independence Day;
10. From noon Friday, September 2, 2016 to 6:00 AM Tuesday, September 6, 2016 for Labor Day;
11. From noon Friday, May 26, 2017 to 6:00 AM Tuesday, May 30, 2017 for Memorial Day.

107-005 (20050502)

6. Utilities.

Project 1661-05-78

This contract comes under the provisions of Wisconsin Administrative Code Chapter Trans 220.

Additional detailed information regarding the location of vacated, relocated, and/or removed utility facilities is available in the work plan provided by each utility company or on the permits issued to them. View these documents at the region WisDOT office during normal working hours.

Alliant Energy has overhead and underground electric facilities within the project limits. Table 1 below displays where and when Alliant Energy plans to relocate their facilities throughout the project corridor. Alliant Energy's proposed plan of action is detailed in the Comments column of the table.

Table 1 - Alliant Energy Relocation Plan				
Pole #	**Station**	**Side**	**Offset**	**Comments**
26/50	198+00EB	RT	50'	Pole to remain - wrap pole to accommodate 4' fill area
28/49	200+00EB	RT	55'	Relocate pole 5’ south of existing pole to avoid bike trail
30/48	202+25EB	RT	45'	Pull existing pole prior to construction
30/48	202+25EB	RT	58'	Set pole after grade is established
32/47	204+00EB	RT	42'	Remove existing pole prior to construction
32/47	204+00EB	RT	54'	Set pole after grade is established
34/46	206+00EB	RT	42'	Remove existing pole prior to construction
34/46	206+00EB	RT	54'	Set pole after grade is established
36/46	208+50EB	RT	44'	Remove existing pole prior to construction
36/46	208+50EB	RT	54'	Set pole after grade is established
38/44	210+50EB	RT	45'	Remove existing pole prior to construction
38/44	210+50EB	RT	56'	Set pole after grade is established
	210+50EB	RT	45'	Abandon 3 phase and 1 phase underground cable crossing USH 18 between Sta 210+50EB and 210+70WB
	210+70WB	LT	90'	Abandon 3 phase and 1 phase underground cable crossing USH 18 between Sta 210+50EB and 210+70WB
40/43	213+00EB	RT	53'	Set new pole- remove existing pole at 45'Rt- add anchor at 45' RT
	212+30EB	RT	55'	Set temporary guy stub pole-- will remove once grade is established to West
	211+00WB	LT	95’	Set new pole and anchors-- this will become underground 3 phase riser pole
	211+90WB	LT	105'	Set new pole 50' West of Centerline of Sugarloaf Trail
	214+15WB	LT	130'	Set new pole 170' East of centerline of Sugarloaf Trail
	216+00WB	LT	140'	Set new pole and anchors- overhead line will cross USH 18 to pole 44/42
42/43	214+85EB	RT	55'	Pole to remain- wrap pole to accommodate 2' fill area
44/42	217+00EB	RT	50'	Set new pole-- add anchor to 70' RT at R.O.W.
44/42	217+00EB	RT	60'	Remove existing pole and anchor
09/39	234+50EB	RT	89'	Set new pole- remove existing pole at 95' RT
11/38	236+50EB	RT	95'	Set new pole- remove existing pole 105' RT - add anchor at 75' RT
	44+00CH	RT	25'	Set new pole SE of the new Cabin Hill Rd
14/38	44+50CH	LT	30'	Remove existing pole
16/37	46+50CH	RT	35'	Remove existing pole
	47+00CH	LT	25'	Set new pole and anchor 15' to Sta 47+00CH 40' RT
17/38	48+20CH	LT	20'	Remove existing pole
	50+00CH	LT	40'	Add anchor to existing pole
21/38	246+80EB	RT	100'	Set new pole
21/38	246+80EB	RT	75'	Remove existing pole
24/38	249+00EB	RT	120'	Set new pole
24/38	249+00EB	RT	75'	Remove existing pole
25/37	251+20EB	RT	70'	Add anchor to existing pole - anchor at 55' RT
36/36	262+30EB	RT	85'	Set new pole 4' south of existing- old pole to be removed
38/35	264+50EB	RT	100'	Set new pole 6' south of exist-old pole 2 b removed, wrap new pole in 4' fill area
40/35	266+50EB	RT	105'	Set new pole in 4' fill area
40/35	266+80EB	RT	95'	Remove existing pole
42/35	269+00EB	RT	117'	Set new pole in 4' fill area, remove existing pole 100' RT

45/34	271+20EB	RT	116'	Set new pole in 4' fill area, remove existing pole 100' RT
15/32	295+00EB	RT	100'	Set new pole
15/32	295+50EB	RT	100'	Remove existing pole
18/32	298+00EB	RT	100'	Existing pole to remain in 2' fill area
28/31	117+30DD	RT	15'	Set new pole 17' west of existing pole. Existing pole to be removed
31/30	119+60GV	LT	30'	Set new pole 4' north of existing, remove existing pole
33/30	122+15GV	LT	30'	Set new pole 15' North of existing, remove existing pole
36/29	125+00GV	LT	30'	Set new pole 25' North of existing, remove existing pole
36/29	315+70EB	RT	85'	Add anchor to new pole at Sta 125+00GV
38/29	317+85EB	RT	125'	Replace existing pole 7' East
28/42	178+50 UB	RT	19'	Remove existing pole
28/42	178+00UB	RT	28'	Set new pole
38/12	358+00WB	LT	60'	Replace existing pole with a 5' taller pole due to 4' fill area

Except where otherwise noted above, Alliant Energy plans to begin the aforementioned relocations in January 2016 and is estimated to be completed within 90 working days.

CenturyLink has an underground fiber optic and telephone line facilities within the project limits.

The underground telephone crossing near 203+95 EB will be discontinued and the pedestal south of USH 18 will be removed. At approximately 211+00 WB LT a new underground fiber optic line will be placed (within the right-of-way) running east, crossing Sugarloaf Trail, then it will head south where it will be bored underneath USH 18 near 213+00. The telephone and fiber optic lines will be buried together and run along the right-of-way on the south side of USH 18 from 213+00 EB RT to approximately 25+30 OW where the lines will cross under the proposed Old Hwy 18 West cul-de-sac. These lines will continue east, crossing Cabin Hill Lane near 44+30 CH, then run along the south side of Cabin Hill Lane to a proposed pedestal and hand hole near 51+00 CH LT. These lines will continue east, along the right-of-way line, until Old Hwy 18 East, where it will be bored underneath Old Hwy 18 East and then continue along the right-of-way line south of USH 18 until approximately 292+50 EB RT.

Multiple underground telephone and fiber optic laterals are proposed to branch off of these underground lines along the south side of USH 18. A new pedestal and hand hole will be installed near 227+00 EB RT with a telephone line running north from this pedestal, crossing USH 18, then heading to a new pedestal on the right-of-way line north of USH 18. This line will then continue north from this pedestal off of the right-of-way. Near 51+00 CH LT, a new telephone and fiber optic line will be buried together and head north until they reach USH 18 where they will be bored underneath the roadway near 244+35 EB. Just north of USH 18 the lines will head northeast to avoid any conflict with the box culvert underneath Ward Rd. Once the lines are past the box culvert, they will continue north past the construction limits.

Near 292+50 EB RT, the telephone line will be bored underneath USH 18 and head to a new pedestal north of USH 18. At this pedestal, the telephone line will head west toward the Utopia Lane Connection. When it gets to the Utopia lane Connection it heads north and will be bored underneath Utopia Lane near 85+00 UE and run to a pedestal that will be moved to approximately 84+90 UE LT.

A fiber optic line will continue east along the right-of-way line south of USH 18 from near 292+50 EB RT to a new fiber hand hole near 299+50 EB RT. From this hand hole, a fiber optic line will be bored underneath USH 18 and run to a new fiber hand hole and telephone pedestal near 299+50 WB LT. From this hand hole and pedestal, a telephone and fiber optic line will be buried together and run east along the right-of-way line north of USH 18. When these lines get to Bouska Rd, they will head north to a new telephone pedestal and fiber hand hole near 102+15 BR LT. From there the lines will cross Bouska Rd and head to a new pedestal near 102+15 BR RT then continue east along the right-of-way line north of USH 18. These lines will be bored underneath three driveways on the north side of New Frontage Road and continue east along the right-of-way line north of USH 18. These lines will be bored underneath three driveways then head north along the west side of Old Hwy 60 off of the construction limits.

A telephone line will continue east along the south side of USH 18 from the hand hole near 299+50 EB RT. It will run along the right-of-way line south of Golf View Drive, underneath four driveways, and end at a new pedestal near 319+00 EB. An existing underground telephone will connect to this new pedestal and continue east in place.

Near 355+40 EB RT, a new telephone line will be bored underneath USH 18 at 8’ depth and head north along the east side of Upper Bridgeport to an existing pedestal.

All conflicting fiber and copper cables will discontinued in place.

Pedestals at 285+30 EB and 290+70 EB will be moved south 6’ or to the back of right-of-way.

CenturyLink plans on relocating their buried fiber and telephone facilities prior to construction, with an anticipated start date of September 8, 2015. The estimated time it will take to relocate the buried cables in 2015 is 45 working days.

CenturyLink plans to relocate their remote cabinet at Old Hwy 18 Starting on April 30, 2016. This work will be involve relocating the remote, placing cabinet/remote cutover/remote splicing. Also, cutover and splicing includes putting customers on the new cable facilities placed in 2015. The estimated time it will take to relocate their facilities in 2016 is 30 working days.

All copper cable will be spliced and the cutover completed to the new cable east of Bouska Road in 2015. All fiber optic cable located on the project will be moved and spliced in 2015, except for the fiber that goes up to Old Hwy 18 (west intersection with USH 18) that feeds the remote cabinet in conflict along Old Hwy. 18

Madison Gas and Electric Company has an underground gas facilities within the project limits.

Any major relocations will take place prior to construction operations under this contract and any minor adjustments will take place concurrently with construction operations under this contract, as specified below. Minor adjustments during construction will require up to five working days of notice and 1 working day to complete for each adjustment site listed below as needed.

The underground gas main north of USH 18 near the beginning of the project will be relocated prior to construction, from near 203+25 WB LT to 204+35 WB LT to avoid the proposed storm sewer.

The gas main underneath the proposed USH 18 roadway will be relocated prior to construction, from approximately 208+00 WB LT to 230+50 EB RT. The proposed gas main from near 208+00 WB LT to Sugarloaf Trail will run outside of the slope intercepts. When it reaches Sugarloaf Trail, it will head south and cross USH 18 near 211+90 WB. This gas main will then run east along the south side of the proposed USH 18 roadway and connect to the existing gas main near 230+50 EB RT.

The gas main from approximately 230+50 WB LT to near 55+00 WR LT will be discontinued prior to construction.

The gas main on the right side of the Church Entrance driveway will be adjusted during construction if it is in conflict with the proposed storm sewer.

The gas main crossing the Utopia Lane Connection and then crossing USH 18 near 288+40 will be relocated prior to construction to cross USH 18 near 287+40. This existing gas main continues east along the south side of USH 18 and will be adjusted during construction if it is in conflict with any proposed storm sewer pipes, culverts, and/or apron endwalls.

The existing gas main crossing USH 18 near 311+25 and continuing north along the east side of Bouska Rd will be adjusted during construction if needed.

Gas mains near 315+20 WB LT and 124+70 GV RT will be adjusted during construction if they are in conflict with the proposed storm sewer.

The gas main from 318+85 WB to 321+15 WB LT will be relocated north a few feet prior to construction.

The gas main near 163+70 HS LT will be adjusted during construction if needed.

The gas main crossing a proposed culvert near 335+00 WB LT will be adjusted during construction if needed.

The gas main crossing a proposed storm sewer apron endwall near 360+10 WB LT will be relocated during construction if needed.

Except otherwise noted above, MG&E plans to begin the aforementioned relocations on October 5, 2015 and is estimated to be completed in 25 working days.

Scenic Rivers Energy Cooperative has an overhead electric facility that begins near 251+25 EB RT, crosses USH 18, and head north off of the construction limits.

Prior to construction operations under this contract, Scenic Rivers Energy Cooperative will bore an underground electric line near 252+00 EB. This will replace their existing overhead facility.

Bridgeport Sanitary District (Water Main and Sanitary Sewer) has underground water main and sanitary sewer facilities that will be adjusted according to the plans and additional articles in these special provisions.

Project 1661-05-80

This contract does not come under the provisions of Wisconsin Administrative Code Chapter Trans 220.

Alliant Energy has overhead electric located in the project area. There is a power pole located approximately 100 feet east of the Ohio Street centerline and 140 feet south of the existing vacated Perry Street right-of-way. An overhead line enters the subject parcel from the east connecting to the subject power pole and continues to the northwest outside of the project limits crossing over Ohio Street. The pole is in conflict and will be relocated during construction. Alliant Energy requires five working days' notice, and the pole will take one working day to relocate.

The following utility owners have facilities within the project area; however, no adjustments are anticipated:

Centurylink
Prairie du Chien Water Department
Prairie du Chien Wastewater Department
Madison Gas & Electric
Mediacom Wisconsin LLC

Project 1661-05-88

This contract comes under the provisions of Wisconsin Administrative Code Chapter Trans 220.

All Utilities located on or near this project are being coordinated under project 1661-05-78. There are no other conflicts with utilities for the project.

7. Hauling Restrictions.

Conduct operations in a manner that will cause a minimum of inconvenience to the free flow of vehicles on roadways carrying USH 18 and STH 60 traffic. Access to these roads will be allowed at locations approved by the engineer.

In order to prevent base contamination do not haul material across the top of the select crushed material surface after the select crushed material is placed.

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

All haul routes on Town Roads and County Roads within the Town of Bridgeport limits must be approved by the Town of Bridgeport prior to usage. Do not operate construction equipment on non-truck routes, residential Town Roads, and residential County Roads beyond the construction limits. The contractor is responsible for locating all approved disposal sites.

8. Prairie du Chien Municipal Airport Restrictions and Coordination.

The Federal Aviation Administration has conducted an aeronautical study (Aeronautical Study No. 2015-AGL-2601-OE) under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning Bridge B-12-0184.

The contractor shall e-file FAA Form 7460-2, Notice of Actual Construction or Alteration, within 5-days after the construction reaches its greatest height (7460-2, Part 2). This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided Form 7460-2 is e-filed within the 5-day requirement listed above.

The no hazard determination cited in the study includes temporary construction equipment such as cranes if the equipment does not exceed the overall heights as indicated in the study. Contact Tim Maedke, Wisconsin Department of Transportation, (608) 789-6317, Timothy.Maedke@dot.wi.gov, for a copy of the study.

9. Information to Bidders, Coordination with Other Work.

Coordinate all salt storage shed construction (ID 1661-05-80) operations with Crawford County and their designee responsible for the site grading, and any incidental construction activities taking place on site as part of the Crawford County Highway Department expansion project.

All grading, foundation excavation and backfilling will be completed by Crawford County.

Work by others includes base aggregate dense 1/4-inch, asphaltic surface, silt fence, tracking pad, washed stone/river rock, and sawing asphalt. Excavation of foundation is part of site prep by Crawford County as stated in Item 50.

The Crawford County representative for the site is:

Dennis Pelock, Highway Commissioner
Crawford County Highway Department
(608) 734-9500
ccommish@centurytel.net

10. 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 Tim Maedke at (608) 789-6317.
107-054 (20080901)

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

Bridge Structures

Nathan Braun, License Number All-206950, inspected Structures B-12-0025 and B-12-0093 for asbestos on June 12, 2015. No regulated Asbestos Containing Material (RACM) were found on these structures. A copy of the inspection report is available from Tim Maedke at (608) 789-6317 or Timothy.Maedke@dot.wi.gov.

In accordance with 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 Tim Maedke at (608) 789-6317 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 B-12-0025, USH 18 over Vineyard Coulee Valley Ditch; and Structure B-12-0093, USH 18 over Wisconsin River
- Site Address: Lat/Long: 430057.09/910627.92, Town of Bridgeport, Crawford County; and 430011.89/910314.17, Town of Bridgeport, Crawford County
- Ownership Information: WisDOT Southwest Region, 3550 Mormon Coulee Road, La Crosse, WI 54601
- Contact: Tim Maedke
- Phone: (608) 789-6317

- Age: B-12-0025 is 48 years old and was constructed in 1967. B-12-0093 is 26 years old and was constructed in 1989.
- Area: B-12-0025: 1,787 SF of deck. B-12-0093: 67,252SF 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 according to standard spec 107.24. Keep material wet until it is abated or until it is determined to be non-asbestos containing material.

Buildings

The residential buildings on Parcel 21 and the town garage building at Station 118+14 Golf View Drive designated for removal were inspected and abated for asbestos. A copy of the inspection report is available from Tim Maedke at (608) 789-6317 or Timothy.Maedke@dot.wi.gov.
107-125 (20120615)

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

Both the department and Delta 3 Engineering, Inc., on behalf of the Town of Bridgeport, personnel will inspect construction of sanitary sewer, water main and highway casing under this contract. However, final acceptance of the sanitary sewer and water main construction will be by the Town of Bridgeport. Delta 3 Engineering, Inc. will provide the construction staking for the sanitary sewer, water main, and highway casing.

This contract includes the installation of the proposed eight-inch sanitary sewer mains and the precast concrete manholes with chimney seals; the connections to the existing sanitary sewer main; the removal of the existing manholes and abandonment of the existing sanitary sewer main; the adjustments of the manholes to match the finish grade; the replacement of the existing sanitary sewer laterals; the installation of the proposed 8-inch water main and all corresponding fittings; polystyrene insulation board; fire hydrants with 6-inch hydrant leads; 6-inch gate valves; 8-inch gate valves; the adjustments of the valves to match the finish grade; the connections to the existing water mains; the removal of the existing fire hydrants and valves; the abandonment of the existing water main; the replacement of the existing water service with a 1-inch water services; installation of the proposed 18-inch and 30-inch reinforced concrete storm sewer casing pipe; and the necessary machinery, equipment, tools, labor, and all construction means and methods to complete the sanitary sewer, water main, and casing pipe construction in place and ready for use. Once removed, the existing fire hydrants and manhole castings shall be salvaged to the Town of Bridgeport.

The contractor shall provide and install the proper granular bedding and granular backfill material for all sanitary sewer and water main trenches under any streets, driveways, sidewalks, and parking areas as indicated on the 1661-05-88 Plan Drawings and specified in the special provisions. The contractor shall use the proper granular bedding material and can use natural granular backfill material, as approved by the engineer, for all sanitary sewer and water main trenches located beyond the street limits and not located under the proposed street, driveways, sidewalks, or parking areas. All bedding and backfill material must be properly compacted during installation. All excavated material from the sanitary sewer and water main construction shall be hauled to and properly disposed of at a site approved by the Town of Bridgeport. All concrete material must be broken into small, manageable pieces and hauled to and properly disposed at a site approved by the Town.

13. Coordination with Businesses and Residents.

The contractor shall arrange and conduct a Public Information Meeting with WisDOT construction staff, local officials, affected residents and business people, and the general public two weeks prior to the start of construction to discuss the project schedule of operations including vehicular access during construction operations. The contractor shall arrange for a suitable location for the meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for the meetings. The contractor shall schedule the meetings with at least 2 weeks prior notice to the engineer to allow for these notifications. This meeting is considered incidental work to the project.

14. Preserving and Maintaining Geodetic Survey Control Station (BRIDGEPORT S GPS).

A Description

This special provision describes installing orange safety fence around geodetic survey control station BRIDGEPORT S GPS (DH5039) and ensuring BRIDGEPORT S GPS is not disturbed during the duration of WisDOT Transportation Improvement Project 1661-05-78.

BRIDGEPORT S GPS located at Station 348+08.6EB, 76.6’ RT is a geodetic survey control station included in the Wisconsin Geodetic Survey Control Network and is published in the National Spatial Reference System (NSRS) database by the Federal government. BRIDGEPORT S GPS is classified as a local GPS Base Station with a leveled Orthometric Height (Horizontal and Vertical Control Point) and the estimated cost to replace a geodetic survey control station with this classification is approximately $15,000.

Any questions shall be directed to the following contact:

Jacob Rockweiler, P.E., Wisconsin Height Modernization Program Manager with the Wisconsin Department of Transportation whose phone number is (608) 516-6362 and email is jacob.rockweiler@dot.wi.gov.

For additional information regarding geodetic survey control stations, please refer to Construction Materials Manual (CMM) 7-85.2.1 (Geodetic Survey Control Station Replacement Procedure):

http://wiscors.dot.wi.gov/docs/Geodetic_Control_Replacement_Procedure.pdf

B (Vacant)

C Construction

Install orange safety fence around the three orange witness posts that are currently surrounding BRIDGEPORT S GPS approximately 10 feet away. Safety fence to be paid under other bid items. It is preferred that one side be left open for continued access to BRIDGEPORT S GPS during construction operations.

Keep construction equipment at least 10 feet away from orange safety fence surrounding BRIDGEPORT S GPS.

Ensure that geodetic survey control station BRIDGEPORT S GPS is not disturbed, bumped or moved during the duration of WisDOT Transportation Improvement Project 1661-05-78.

Notify the Geodetic Surveys Unit at (866) 568-2852 or email geodetic@dot.wi.gov, or Jacob Rockweiler as listed above at least 7 calendar days prior to construction operations that will take place in the vicinity of BRIDGEPORT S GPS. Geodetic Surveys Unit staff will not be required to be present on site when construction operations are taking place in the vicinity of BRIDGEPORT S GPS but are available to be on site when notified at least seven calendar days prior as stated above.

Notify Jacob Rockweiler as listed above immediately if BRIDGEPORT S GPS is disturbed during construction operations.

D (Vacant)

E (Vacant)

15. Destroying Geodetic Survey Control Station (PTS 108S (DH8305)).

A Description

This special provision describes the destruction of geodetic survey control stations PTS 108S (DH8305) by Wisconsin Department of Transportation (WisDOT) Improvement Project 5541-06-00.

PTS 108S (DH8305) located near Station 233+30EB, 100’ RT is a Local GPS Base Station with GPS-derived Orthometric Height’s (Horizontal and Vertical Control Point). The station is published in the National Spatial Reference System (NSRS) database by the Federal government and is included in the Wisconsin Geodetic Survey Control Network.

Any questions shall be directed to the following contact:

Jacob Rockweiler, P.E., Wisconsin Height Modernization Program Manager with the Wisconsin Department of Transportation whose phone number is (608) 516-6362 and email is jacob.rockweiler@dot.wi.gov.

For additional information regarding geodetic survey control stations, please refer to Construction Materials Manual (CMM) 7-85.2.1 (Geodetic Survey Control Station Replacement Procedure):

http://wiscors.dot.wi.gov/docs/Geodetic_Control_Replacement_Procedure.pdf

B (Vacant)

C Construction

Contractor shall notify Jacob Rockweiler, Wisconsin Height Modernization Program Manager, as listed above at least 7 calendar days prior to construction operations that will take place in the vicinity of geodetic survey control station PTS 108S (DH8305), located near Station 233+30, 100' RT. WisDOT Geodetic Surveys Unit staff will remove and salvage the 3.5-inch diameter bronze geodetic survey disk from the surface of existing box culvert under Old Hwy 18 prior to the removal of the structure.

WisDOT Geodetic Surveys Unit staff will not be required to be on site during removal of the PTS 108S (DH8305) remnant concrete bases or guard posts.

D (Vacant)

E (Vacant)

16. Submittal Procedures for Sanitary Sewer and Water Main.

A Description

This special provision describes submittal procedures, product data, shop drawings, certifications, and manufacturer's instructions for sanitary sewer system and water distribution system as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

B.1 Submittal Procedures

Transmit each submittal with engineer accepted form.

Sequentially number transmittal forms. Mark revised submittals with original number and sequential alphabetic suffix.

Identify Project, contractor, subcontractor and supplier; pertinent drawing and detail number, and specification section number, appropriate to submittal.

Apply contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is according to requirements of the Work and Contract Documents.

Schedule submittals to expedite Project, and deliver to engineer at 875 South Chestnut Street, Platteville, Wisconsin 53818. Coordinate submission of related items. For each submittal for review, allow 15 days excluding delivery time to and from contractor.

Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work.

Allow space on submittals for contractor and engineer review stamps.

When revised for resubmission, identify changes made since previous submission.

Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report inability to comply with requirements.

Submittals not requested will not be recognized or processed.

B.2 Proposed Products List

Within 15 days after date of Owner-Contractor Agreement submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.

For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

All products to be domestically made, manufactured, produced, and assembled in the United States of America.

B.3 Product Data

Submit to Architect/engineer for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.

Submit number of copies contractor requires, plus three copies that engineer will retain.

Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this project.

Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

After review, produce copies and distribute according to the “Submittal Procedures for Sanitary Sewer and Water Main” article and for record documents.

Provide equipment and personnel to handle and store products by methods to prevent soiling, disfigurement, or damage.

B.4 Shop Drawings

Shop Drawings: Submit to engineer for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.

Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

Submit number of reproductions contractor requires, plus three copies that engineer will retain.

After review, produce copies and distribute according to "Submittal Procedures for Sanitary Sewer and Water Main" article and for record documents.

B.5 Certificates

When specified in individual specification sections, submit certification by manufacturer, installation/application subcontractor, or contractor to engineer, in quantities specified for Product Data.

Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

Certificates may be recent or previous test results on material or Product, but must be acceptable to engineer.

B.6 Manufacturer's Instructions

When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to engineer for delivery to Owner in quantities specified for Product Data.

Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

B.7 Manufacturer's Field Reports

Submit reports for engineer's benefit as contract administrator or for Owner.

Submit report in duplicate within 30 days of observation to engineer for information.

Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

B.8 Project Record Documents
Maintain on site one set of the following record documents; record actual revisions to the Work:

- Drawings.
- Specifications.
- Addenda.
- Change Orders and other modifications to the Contract.
- Reviewed Shop Drawings, Product Data, and Samples.
- Manufacturer's instruction for assembly, installation, and adjusting.

Ensure entries are complete and accurate, enabling future reference by Owner. Record information concurrent with construction progress, not less than weekly.

Specifications: Legibly mark and record at each product section description of actual products installed, including the following:

a. Manufacturer's name and product model and number.
b. Product substitutions or alternates utilized.

Changes made by Addenda and modifications.

Record Drawings: Legibly mark each item to record actual construction including:

a. Measured depths of foundations in relation to finish main floor datum.
b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
d. Field changes of dimension and detail.
e. Details not on original Contract drawings.

Provide the Post-Installation Televised Sewer Report and Video.

Submit documents to engineer with claim for final Application for Payment.

C (Vacant)

D (Vacant)

E Payment
All required submittals shall be considered incidental to the work for the sanitary sewer system and water distribution system of Project #1661-05-88.

17. Trenching for Sanitary Sewer and Water Main Utilities.

A Description
This special provision describes excavating trenches for sanitary sewer and water main utilities as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials
Fill materials shall conform to the requirements of the Backfill Section in these special provisions.

C Construction
C.1 Preparation
Call Local Utility Line Information service (Digger's Hotline, (800) 242-8511) not less than three working days before performing Work.

1. Request that all utilities to be located and marked within and surrounding construction areas.

Protect utilities indicated to remain from damage.

Protect plant life (trees, shrubs, flowers, etc.), lawns, fields, and other features remaining as portion of final landscaping.

Protect bench marks, survey control points, existing structures, fences, sidewalks, paving, curbs, and other items to remain from excavating equipment and vehicular traffic.

Maintain and protect above and below grade utilities indicated to remain.

Establish temporary traffic control and detours when trenching is performed in public right-of-way. Relocate traffic controls and reroute traffic as required during progress of Work. Contractor to use the Manual of Uniform Traffic Control Devices (MUTCD) as their guideline.

C.2 Lines and Grades
Lay pipes to lines and grades indicated on Drawings.

a. Engineer reserves right to make changes in lines, grades, and depths of utilities when changes are required for Project conditions.

Use laser-beam instrument(s) with qualified operator to establish lines and grades.

If laser-beam instrument(s) are not used, maintain grade alignment of pipe using string line parallel with grade line and vertically above centerline of pipe.

a. Establish string line on level batter boards at intervals of not more than 25 feet.
b. Install batter boards spanning trench, rigidly anchored to posts driven into ground on both sides of trench.
c. Set three adjacent batter boards before laying pipe to verify grades and line.
d. Determine elevation and position of string line from elevation and position of offset points or stakes located along pipe route.
e. Do not locate pipe using side lines for line or grade.

C.3 Installation

When encountering existing utilities, perform excavation according to the utility's requirements.

Do not advance open trench more than 200 feet ahead of installed pipe, unless otherwise permitted by the Engineer. Provide construction fence barricades around open trenches and pits when unattended.

Do not leave more than 25 feet of trench open at end of working day.

Cut trenches sufficiently wide to enable installation and allow inspection. Remove water or materials that interfere with Work.

Excavate bottom of trenches a minimum of 6 inches and a maximum 24 inches wider than outside diameter of pipe.

Excavate trenches to depth indicated on Drawings. Verify that trench is excavated deep until not only for the pipe, but for the pipe bedding also. Provide uniform and continuous bearing and support for bedding material and pipe.

When Project conditions permit, slope side walls of excavation starting 2 feet above top of pipe. When side walls cannot be sloped, provide sheeting and shoring to protect excavation as specified in this section.

When subsurface materials at bottom of trench are loose or soft, notify engineer, and request instructions.

Cut out soft areas of subgrade not capable of compaction in place. Backfill with granular fill as per the Backfill Section in these special provisions and compact to density equal to or greater than requirements for subsequent backfill material.

Trim excavation. Hand trim for bell and spigot pipe joints. Remove loose matter.

Correct areas over excavated areas with compacted backfill as specified for authorized excavation or replace with fill concrete as directed by the engineer.

Remove excess subsoil not intended for reuse, from site.

Wet Trench Conditions:

a. Contractor shall attempt to dispose of ground water or surface drainage entering trench by employing ordinary dewatering techniques such as the use of sump pumps, sump pits adjacent to pipe alignment, dikes, and similar methods. Dispose of, or divert, water along existing drainage ways. Do not place water so that it ponds on roadway subgrade or adjacent private property. Do not directly discharge water into a stream, river, pond, or lake.

b. Allowing water to flow into the pipe being laid will not be permitted, except for storm sewer, after joints have been set. Install temporary plug on upper end of pipe if there is danger of sand or debris being washed into pipe.
c. When trench bottom is unstable because of ground water, the engineer may require extra excavation to remove the unstable material. Provide washed stone foundation followed by granular bedding as per the Backfill Section in these special provisions.

Well Point and Deep Well Dewatering:

a. Where in the opinion of the engineer or contractor, the trench or excavation pit cannot be kept dry by ordinary dewatering techniques, install a well point or deep well system to effectively dewater the trench or pit.
b. If dewatering wells are approved, they shall be drilled, maintained, and abandoned according to the requirements of the Wisconsin Department of Natural Resources (WDNR). For dewatering wells that have a single or aggregate capacity of greater than 70 gpm, contractor must obtain a well permit from the WDNR, Private Water Supply Section, Box 7921, Madison, Wisconsin 53707.

Reshape and re-compact fills subjected to vehicular traffic during construction. Provide access to residential, commercial, and industrial properties if an alternate access is not available by the end of each working day.

C.4 Dewatering

General: The contractor shall provide and maintain ample means and devices with which to promptly remove all water entering excavations, trenches, and other parts of the work and shall keep said excavations dry until the structures to be built therein are completed. No masonry shall be installed in water nor shall water be allowed to rise over masonry and concrete if there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed. Dewatering shall be either TYPE I or TYPE II as described below:

TYPE I: TRENCH DEWATERING AND POINTS/WELLS DEWATERING WITH PUMP RATES LESS THAN 70 GALLONS PER MINUTE (AGGREGATE TOTAL).

If the contractor chooses to use trench dewatering techniques (no limit on pump rates) or a point/well system that in total pumps <70 g.p.m., the permitting of these activities is covered by the project's Construction Site General Permit obtained from the Wisconsin Department of Natural Resources (WDNR) for the project. As such, the contractor shall be responsible for complying with the erosion control requirements for dewatering, Wisconsin Department of Natural Resource Technical Standard #1061.

TYPE II: POINTS/WELLS WITH PUMP RATES GREATER THAN OR EQUAL TO 70 GALLONS PER MINUTE (AGGREGATE TOTAL).

If the contractor chooses to dewater the site with points/wells with total pump rates equal to or greater than 70 g.p.m., the contractor shall obtain a permit for installation of groundwater control wells from the Wisconsin Department of Natural Resources (WNDR) according to paragraph 144.025(2)(e), Wisconsin Statutes. All wells shall be drilled and sealed according to requirements of the WDNR for the installing and abandoning wells. The address for obtaining well permits is:

Wisconsin Department of Natural Resources
Private Water Supply Section
Box 7921
Madison, WI 53707

When the contractor chooses to obtain a water supply permit for dewatering, he/she shall provide erosion control at the discharge point as required to meet the conditions of the permit. At a minimum the contractor shall provide silt fence, riprap, sedimentation basins or other approved means to minimize erosion and dissipate energy from the discharge point of pumped water.

Further, where the discharge (as permitted by the private water supply permit) has the potential to cause an adverse impact on the quality of the receiving water, a Wisconsin Pollutant Discharge Elimination System (WPDES) permit may be required by the WDNR. If a WPDES permit is required, the contractor shall file for this permit with the WDNR, and comply with any and all requirements of that permit. If discharge testing is required by the WPDES permit, the contractor shall:

(1) Arrange for independent testing laboratory to sample and analyze discharge water for particulates at frequency indicated within WPDES permit. Where particulates exceed specified limits, the contractor shall take such measures as are required to improve water quality to meet standards.

(2) Construct any sedimentation basins used to meet the requirements of the WPDES discharge permit to meet the requirements of "Wisconsin Construction Site Best Management Handbook" or its' successors.

The contractor shall be solely responsible for choosing a method of groundwater control, which is compatible with the constraints defined herein. The contractor shall be responsible for the adequacy of the groundwater control system and shall not take all necessary measures to

ensure that the groundwater control operation will not endanger or damage any existing adjacent utility or structure.

The contractor shall submit in writing to the engineer his proposed method of dewatering for this project prior to its use.

The method or methods shall be designed, installed, and operated in such a manner to provide satisfactory working conditions and to maintain the progress of work. The methods and systems shall be designed so as to avoid settlement or damage to adjacent property according to the applicable legislative statutes and judicial decisions of the State of Wisconsin. All required pumping, drainage, and disposal of groundwater shall be done without damage to adjacent property or structures, or to the operations of other contractors and without interference with the access rights of public and private parties.

The dewatering system must remain in place until all excavation, backfilling, and compaction is completed.

C.5 Overexcavation of Trench

Any work involved in forming a satisfactory foundation for the proposed pipe and/or structure at a depth of six (6) inches below will be considered incidental.

Additional excavation, including undercut beyond 6 inches, shall be measured in the field and the volume in cubic yards shall be computed from those measurements. The maximum width of the additional excavation or undercut shall be the outside diameter of the pipe or structure plus 2 feet.

The engineer will ultimately decide on whether the material located under the initial 6 inches of excavation is suitable or not. Unauthorized excavating will not be paid for.

C.6 Sheeting and Shoring

Sheet, shore, and brace excavations to prevent danger to persons, structures and adjacent properties and to prevent caving, erosion, and loss of surrounding subsoil.

Support trenches more than 5 feet deep excavated through unstable, loose, or soft material. Provide sheeting, shoring, bracing, or other protection to maintain stability of excavation.

Design sheeting and shoring to be removed at completion of excavation work.

Repair damage caused by failure of the sheeting, shoring, or bracing and for settlement of filled excavations or adjacent soil.

Repair damage to new and existing Work from settlement, water or earth pressure or other causes resulting from inadequate sheeting, shoring, or bracing.

D (Vacant)

E Payment
All trenching is incidental to the sanitary sewer system, water distribution system, and other utility installations.

18. Backfill for Sanitary Sewer and Water Main.

A Description
This special provision describes bedding and backfilling of all trenches for sanitary sewer system and water distribution system as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials
Materials Source: Submit name of imported fill materials' suppliers.

B.1 Subsoil Fill
As per standard spec 207: Embankment and standard spec 208: Borrow of the 2006 Standard Specifications (including all supplemental specifications) by the Wisconsin DOT. Material used shall be free of organic matter, debris, frozen soils, ice, and other objectionable materials.

B.2 Granular Backfill
As per standard spec 209 of the 2006 Standard Specifications (including all supplemental specifications) by the Wisconsin Department of Transportation. The gradation of material passing the No. 4 Sieve may be either Grade 1 or Grade 2 material as per standard spec 209.2.2.

B.3 Crushed Road Gravel
Gravel, crushed gravel, or stone, composed of hard, and sound, durable particles and a filler of sand, stone dust or other finely divided mineral material and shall be free of clay lumps and vegetable matter. It shall meet the following gradation:

Sieve Size	Percentage Passing by Weight:
1-1/2 Inch	-%
1 Inch	100
¾ Inch	85 – 100
3/8 Inch	50-80
No. 4	35 – 60
No. 10	25 – 50
No. 40	15 – 30
No. 200	5 – 15

B.4 Clean/Clear Stone
Clean, hard, tough, and durable ¾ inch to 1 ½ inch clean/clear stone, crushed rock, crushed gravel, or gravel free from fines and adherent coatings.

C Construction

C.1 Preparation

Prepare subgrade according to standard spec 205.

Compact subgrade to density requirements for subsequent backfill materials.

Cut out soft areas of subgrade not capable of compaction in place. Backfill with granular fill and compact to density equal to or greater than requirements for subsequent fill material.

When applicable, proof roll to identify soft spots; fill and compact to density equal to or greater than requirements for subsequent fill material.

C.2 Bedding and Initial Backfilling

Bedding, haunching, and initial backfill for rigid pipes shall be according to ASTM C12, Class C or better. Bedding, haunching, and initial backfill for flexible pipes shall be according to ASTM D-2321, Class II or better.

Provide 6 inches of compacted granular material for bedding. Haunches to be supported by compacted granular material. Initial backfilling, that backfill which is placed from the top of the pipe to 12 inches above, shall be compacted granular material.

Bedding and initial backfilling for the sanitary sewer and appurtenances to be ¾" to 1 ½" washed or clean stone.

In all cases, contractor to follow manufacturer's recommendation for bedding.

C.3 Backfilling

Backfill trenches to the subgrade elevation.

Place material in continuous layers as follows:

Subsoil (Natural) Fill: Maximum 12 inches compacted depth.

1. Compact to 90% of maximum density as determined by ASTM D-1557.
2. Subsoil Fill shall only be used as backfill material when not located under a roadway, parking lot, future roadway, or structure.

Granular Fill: Maximum 6 inches compacted depth.

1. Compact to 95% of maximum density as determined by ASTM D-1557.

Employ placement method that does not disturb or damage other work.

1. In no case shall backfill material be dropped from such a height or in such a volume that its impact will cause dislocation or damage to piping.

Maintain optimum moisture content of backfill materials to attain required compaction density.

When backfilling in freezing temperatures, cover pipe and tamp backfill around pipe using only loose, thawed material. When allowed to use subsoil fill, do not place frozen material in trench within 2 feet of top of pipe nor around manholes and other structures.

Remove surplus backfill materials from site.

Leave fill material stockpile areas free of excess fill materials.

D (Vacant)

E Payment
All backfilling to be included incidental to the manhole, hydrant, valve, sanitary sewer, sanitary sewer lateral, water main, water service, or utility installations.

19. Abandoning Sanitary Sewer – USH 18.

A Description
This special provision describes abandoning existing sanitary sewer by filling it with cellular concrete according to the pertinent requirements of standard spec 204 and 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 (Vacant)

E Payment
Abandoning the existing sanitary sewer is incidental to the sanitary sewer main work of the Project.

20. Disinfection of Water Distribution System.

A Description
This special provision describes disinfecting the proposed water main, hydrants, valves, and all associated fittings as shown on the plans, as further directed by the engineer in the field, and as hereinafter provided.

B Materials

B.1 References

(1) American Water Works Association:

a. AWWA B300 - Hypochlorites.
b. AWWA B302 - Ammonium Sulfate.
c. AWWA B303 - Sodium Chlorite.
d. AWWA C600 - Installation of Ductile-Iron Water Mains and Their Appurtenances.
e. AWWA C651 - Disinfecting Water Mains.

B.2 Product Submittals

(1) Product Data: Submit procedures, proposed chemicals, and treatment levels for review.

(2) Test Reports: Indicate results comparative to specified requirements.

(3) Testing Firm: Company specializing in testing and examining potable water systems, certified by the State of Wisconsin.

(4) Disinfection Report:

a. Type and form of disinfectant used.
b. Date and time of disinfectant injection start and time of completion.
c. Test locations
d. Name of person collection samples.
e. Initial and 24 hour disinfectant residuals in treated water in ppm for each outlet tested.
f. Date and time of flushing start and completion.
g. Disinfectant residual after flushing in ppm for each outlet tested.

(5) Bacteriological Report:

a. Date issued, project name, and testing laboratory name, address, and telephone number.
b. Time and date of water sample collection.
c. Name of person collection samples.
d. Test locations.
e. Initial and 24 hour disinfectant residuals in ppm for each outlet tested.
f. Coliform bacteria test results for each outlet tested.
g. Certify water conforms, or fails to conform, to bacterial standards of the State of Wisconsin.

(6) Perform Work according to AWWA C651.

(7) Submit bacteriologist's signature and authority associated with testing.

B.3 Product Materials

(1) Disinfection Chemicals: Hypochlorite according to AWWA B300.

C Construction

C.1 Preparation

(1) Verify piping system has been cleaned, inspected, and pressure tested.

(2) Perform scheduling and disinfecting activity with start-up, water pressure testing, adjusting and balancing, demonstration procedures, including coordination with related systems.

C.2 Installation

(1) Provide and attach required equipment to perform the Work of this section.

(2) Perform disinfection of water distribution system and installation of system and pressure testing according to the Water Main Section in these special provisions.

(3) Inject treatment disinfectant into piping system.

(4) Maintain disinfectant in system for 24 hours.

(5) Flush, circulate, and clean until required cleanliness is achieved; use municipal domestic water.

(6) Replace permanent system devices removed for disinfection.

(7) When construction methods do not allow for disinfectant to remain in the system for a minimum of 24 hours (i.e. when completing a tie-in), contractor to swab and/or spray the installed material(s) with a solution of hypochlorite prior to installing. Entire materials shall be disinfected prior to installation.

C.3 Field Quality Control

(1) Disinfection, Flushing, and Sampling:

a. Disinfect pipeline installation according to AWWA C651. Use of liquid chlorine is not permitted

b. Upon completion of retention period required for disinfection, flush pipeline until chlorine concentration in water leaving pipeline is no higher than that generally prevailing in existing system or is acceptable for domestic use.

c. Legally dispose of chlorinated water. When chlorinated discharge may cause damage to environment, apply neutralizing chemical to chlorinated water to neutralize chlorine residual remaining in water.

d. After final flushing and before pipeline is connected to existing system, or placed in service, employ an approved independent testing laboratory to sample, test and certify water quality suitable for human consumption.

D (Vacant)

E Payment

Disinfection of the water distribution system is incidental to the water main installation.

21. Disposal of Material and Salvage.

Surplus or unsuitable excavated material from the 1661-05-80 project site shall be disposed of in a legal manner at a site provided by the contractor. The contractor is solely responsible for securing a site and disposal of all materials from this project per all Wisconsin DNR and Federal regulations. Crawford County has first right to all

salvageable items on their facilities. Deliver all materials chosen to be salvaged to a location designated by Crawford County. Include all costs associated with disposal of materials and salvage in the bid price for which this work is associated.

22. Erosion Control.

Add the following to standard spec 107.20:

Erosion control within the 1661-05-80 project site will be established and maintained by the Crawford County Highway Department or others and is not included as part of this contract. The Crawford County representative for the site is:

Dennis Pelock, Highway Commissioner
Crawford County Highway Department
(608) 734-9500
ccommish@centurytel.net

23. 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)

24. Removing Old Structure Over Waterway With Minimal Debris Sta. 207+19, 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 B-12-0025 over the unnamed tributary 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 Sta. 207+19	LS

203-020 (20080902)

25. Abandoning Culvert Pipes, Item 204.0270.

Replace standard spec 204.3.3.2(1) with the following:

(1) Under the Abandoning Culvert Pipes bid item, fill the abandoned pipe with Backfill Controlled Low Strength (209.0200.S) and plug both ends of the abandoned pipe as specified in standard spec 204.3.3.1. Removal and disposal of the apron endwalls is incidental to this bid item.

26. Removing Modular Block Retaining Wall, Item 204.9165.S.01.

A Description

This special provision describes removing modular block retaining walls according to standard spec 204.

B (Vacant)

C Construction
Remove and dispose of wall items according to standard spec 204.

D Measurement
The department will measure Removing Modular Block Retaining Wall by the square foot, measured from the base of the wall to the top of the wall, including concrete masonry footings and caps if present, acceptably completed. If the engineer directs portions of the wall that are greater than 2 feet below finished grade to remain, this quantity left in place 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
204.9165.S.01	Removing Modular Block Retaining Wall	SF

Payment is full compensation for removing and disposing of materials.

27. Select Borrow, Item 208.1100.

Conform to the requirements of standard spec 208 and as hereinafter provided.

Material
Furnish and use material that consists of granular material meeting the following requirements: Maximum particle size of 12 inches when measured from any face. The material passing the No. 4 sieve shall have a maximum of 20% by weight passing the No. 200 sieve.
208-005 (20031103)

28. Notice to Contractors – Borrow Sites.

Add the following to standard spec 208:

A Airport Coordination
This project is within five miles of a public-use airport, Prairie du Chien Municipal Airport, therefore special attention shall be given to standard spec 208 regarding borrow excavation within the vicinity of the airport.

Contact information for the Airport:
City of Prairie du Chien
Attn: City Administrator
214 E Blackhawk A venue
P0 Box 324
Prairie du Chien, WI 53821
(608) 326-6406

Bureau of Aeronautics Contact information:
Scott Brummond
4802 Sheboygan Ave.
Madison, WI 53707
(608) 267-2142

USDA- Wildlife Services
Chip Lovell
1201 Storbeck Drive
Waupun, WI 53963
Charles.d.lovell@aphis.usda.gov
(920) 324-4514

Present any permits and correspondence with the airport, the bureau of aeronautics and local governments regarding the borrow sites to the engineer prior to work at the borrow site.

29. Backfill Controlled Low Strength, Item 209.0200.S.

A Description

This special provision describes furnishing and placing a controlled low strength material designed for use as backfill in trenches for culverts, sewers, utilities, or similar structures, as backfill behind bridges abutments, or as fill for the abandonment of culverts, pipes, or tanks.

B Materials

Provide controlled low strength backfill that consists of a designed cementitious mixture of natural or processed materials. Allowable materials include natural sand, natural gravel, produced sand, foundry sand, produced gravel, fly ash, Portland cement, and other broken or fragmented mineral materials. The designed mixture shall be self-leveling and shall be free of shrinkage after hardening. Design the mixture to reach a state of hardening such that it can support foot traffic in no more than 24 hours. Provide a mixture that also meets the following requirements.

Test	Method	Value
Flow (inch)	ASTM D-6103	9 min
Compressive Strength (psi)	ASTM D-6024	20-40 @ 14 days 40-80 @ 28 days 80-120 @ 90 days

Chemical admixtures to control air content and setting time are allowable. Ten days prior to placement, furnish the engineer with a design mix detailing all components and their proportions in the mix. Also, provide documentation from the supplier of the industrial byproducts that the foundry sand and fly ash used in the mixture meet the requirements for Industrial Byproducts Categories 1, 2, 3, or 4 in NR 538 of the Wisconsin Administrative Code for use as a confined geotechnical fill.

C Construction

Place controlled low strength backfill at the locations and to the lines and grades as shown on the plan. Proportion and mix materials to produce a product of consistent texture and flow characteristics. The engineer may reject any materials exhibiting a substantial change in properties, appearance, or composition.

If the official Weather Bureau forecast for the construction site predicts temperatures at or below freezing within the next 24 hours after placement of controlled low strength backfill, protect the placed materials from freezing during that time period. If the temperature is not forecast to rise above 40º F for 72 hours after placement, the engineer may require protection from freezing for up to 72 hours.

No controlled low strength backfill shall be allowed to enter any stream, lake, or sewer system. The contractor shall be responsible for any clean up or remediation costs resulting from such occurrences.

D Measurement

The department will measure Backfill Controlled Low Strength in volume by the cubic yard of material placed and accepted. Such volume shall be computed from actual measurements of the dimensions of the area to be backfilled. In irregular or inaccessible areas, the engineer may allow volume to be determined by other appropriate methods.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
209.0200.S	Backfill Controlled Low Strength	CY

Payment is full compensation for designing the mix; supplying all materials; preparing the proportioned mix; hauling it to the construction site; placing the material; and protecting it from freezing.

209-010 (20090901)

30. 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 sublot 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)

31. Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S.

A Description

This special provision describes furnishing and placing stainless steel reinforcing bars and associated stainless steel bar couplers.

Conform to standard spec 505 as modified in this special provision.

B Materials

B.1 General

Furnish stainless steel reinforcing bars conforming to ASTM A955 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. Conform to the chemical composition specified for the given UNS designation in ASTM A276 table 1.

Supply bars that are free of dirt, mill scale, oil, and debris by pickling to a bright or uniform light finish. The department may reject bars displaying rust/oxidation, questionable blemishes, or lack of a bright or uniform pickled surface.

Furnish chairs or continuous supports made of stainless steel or recycled plastic to support high-strength stainless bar steel reinforcement subject to the plastic chair restriction stated in standard spec 505.3.4(1).

Furnish couplers made from one of the UNS alloys allowed for bar steel.

Furnish tie wire made from one of the UNS alloys allowed for bar steel or from an engineer-approved plastic or nonmetallic material. Ensure that stainless steel tie wire is dead soft annealed.

B.2 Fabrication

Before fabrication, supply test results from an independent testing agency certifying that the reinforcement meets the requirements of Annex A1 of ASTM A955.

Bend bars conforming to standard spec 505.3.2 and according to ASTM A955. Bend and cut bars using equipment thoroughly cleaned or otherwise modified to prevent contamination from carbon steel or other contaminants. Use tools dedicated solely to working with stainless steel.

B.3 Control of Material

Identify reinforcement bars delivered to the project site with tags bearing the identification symbols used in the plans. Include the UNS designation, heat treat condition, heat number, grade corresponding to minimum yield strength level, and sufficient documentation to track each bar bundle to a mill test report.

Provide samples for department testing and acceptance according to CMM 8-50 Exhibit 1 requirements for concrete masonry reinforcement for uncoated bar steel.

Provide mill test reports for the project that do the following:

1. Verify that sampling and testing procedures and test results conform to ASTM A955, ASTM A276 table 1, and these contract requirements.
2. Include a chemical analysis with the UNS designation, heat lot identification, and the source of the metal.
3. Include tensile strength, yield strength, and elongation tests results conforming to ASTM A955 for each size furnished.
4. Certify that the bars have been pickled to a bright or uniform light finish.

C Construction

C.1 General

Ship, handle, store, and place the stainless steel reinforcing as follows:

1. Separate from regular reinforcement during shipping. Pad points of contact with steel chains or banding, or secure with non-metallic straps.
2. Store on wooden cribbing separated from regular reinforcement. Cover with tarpaulins if stored outside.
3. Handle with non-metallic slings.
4. Do not flame cut or weld. Protect from contamination when cutting, grinding, or welding other steel products above or near the stainless steel during construction.
5. Place on plastic or stainless steel bar chairs. If placing stainless steel chairs on steel beams, use chairs with plastic-coated feet.
6. Tie with stainless steel wire or an engineer-approved plastic or nonmetallic material.

Do not tie stainless steel reinforcing bars to, or allow contact with, uncoated reinforcing bars or galvanized steel. Maintain at least 1-inch clearance between stainless steel bars or dowels and uncoated or galvanized steel. Where 1-inch clearance is not possible, sleeve bars with a continuous polyethylene or nylon tube at least 1/8-inch thick extending at least 1 inch in each direction and bind with nylon or polypropylene cable ties. Sleeves are not required between stainless steel bars and shear studs. Stainless steel bars can be in direct contact with undamaged epoxy-coated bars.

Cut flush with the top flange or remove uncoated fasteners, anchors, lifting loops, or other protrusions into a bridge deck before casting the deck on prestressed concrete beams.

C.2 Splices
Splice as the plans show. Provide stainless steel couplers conforming to the minimum capacity, certification, proof testing, and written approval requirements of standard spec 550.3.3.4. The contractor may substitute stainless steel couplers for lap slices the plans show if the engineer approves in writing.

If increasing or altering the number or type of bar splices the plans show, provide revised plan sheets to the engineer showing the reinforcement layout, type, length, and location of revised bar splices and revised bar lengths. Obtain engineer approval for the location of new lap splices or substitution of mechanical bar couplers before fabrication. Ensure that new lap splices are at least as long as those the plans show.

D Measurement
The department will measure Bar Steel Reinforcement HS Stainless Structures by the pound acceptably completed, computed from the nominal weights of corresponding sizes for carbon steel deformed bars in AASHTO M31 regardless of stainless steel alloy provided. The department will not measure extra material used if the contractor alters the reinforcement layout as allowed under C.2, extra material for splices or couplers the plans do not show, or the weight of devices used to support or fasten the steel in position.

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

ITEM NUMBER	DESCRIPTION	UNIT
505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB

Payment for Bar Steel Reinforcement HS Stainless Structures is full compensation for furnishing and placing stainless steel reinforcing bars, including supports. Where the plans specify bar couplers, the department will pay for the length of bars as detailed with no deduction or increase for installation of the coupler.
505-005 (20141107)

32. Storm Sewer Manholes, Inlets and Catch Basins.

Construct storm sewer manholes, inlets and catch basins according to standard spec 611 except as hereinafter modified:

Construct storm sewer manholes, inlets and catch basins using only pre-cast or cast in place concrete masonry options. The brick masonry or concrete brick or block masonry options shall not be used.

Tuck point all inlet and outlet pipes using concrete conforming to standard spec 501. Mortar shall not be used for tuck pointing.

33. 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, acceptably completed in place, as units.

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)

34. Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.01.

A Description
This special provision describes furnishing and placing polystyrene insulation board as shown on the plans and as hereinafter provided.

B Materials
Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230, except as hereinafter revised.

Delete flammability requirement.

B.1 Certification
Before installation, obtain from the manufacturer a certification indicating compliance and furnish it to the engineer.

C (Vacant)

D Measurement
The department will measure Insulation Board Polystyrene (size) by area in square yards of work, completed and accepted.

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

ITEM NUMBER	DESCRIPTION	UNIT
612.0902.S.01	Insulation Board Polystyrene 2-Inch	SY

Payment is full compensation for furnishing all excavation; and for furnishing and placing the insulation board.
612-005 (20030820)

35. 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)

36. Stone or Rock Ditch Checks, Item 628.7560.S.

A Description
This special provision describes furnishing and installing stone or rock ditch checks as shown on the plans or as directed by the engineer, or both, and as hereinafter provided.

B Materials
Provide materials conforming to size requirements for size no. 2 coarse aggregate for concrete masonry or riprap according to the standard spec 501.2.5.4.4. Railroad ballast or breaker run stone conforming to the following applicable gradations may also be used:

Railroad Ballast

Sieve Size	Percent by Weight Passing
2 Inch	100
1 Inch	20 – 55
3/8 Inch	0 -5

Breaker Run Stone

Sieve Size	Percent by Weight Passing
5 Inch	100
1½ Inch	0 – 50
3/8 Inch	0 - 5

Incorporate stone or rock in the ditch checks that is hard, sound, and durable, and meets the approval of the engineer.

C Construction
Place stone or rock ditch checks immediately after shaping of the ditches or slopes is completed. Place stone or rock ditch checks at right angles to the direction of flow and construct to the dimensions and according to the details shown in the plans.

Remove sediment from behind the stone or rock ditch checks when it has accumulated to one half of the original height of the dam.

D Measurement
The department will measure Stone or Rock Ditch Checks in volume by the cubic yard of material incorporated in the work.

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

ITEM NUMBER	DESCRIPTION	UNIT
628.7560.S	Stone or Rock Ditch Checks	CY

Payment is full compensation for furnishing, producing, crushing, loading, hauling, placing, and shaping and maintaining Stone or Rock Ditch Check.

The quantity of sediment removed shall be multiplied by a factor of ten and paid for as Common Excavation.
628-050 (20141107)

37. Wood and Tubular Steel Sign Posts.

Add the following to standard spec 634.3:

For removable sign posts, as designated in the plans, attach the steel tubular square upper section to the anchor system with a straight 3-inch, grade 5 zinc plated bolt and nut that runs through the center of the anchor assembly for easier post removal. Do not use a corner anchor bolt.

38. Traffic Control.

Add the following to standard spec 643.3.1:

Contact WisDOT Traffic, Andy Winga at (608) 785-9061, at least one week prior to installing and/or revising the traffic control items for each stage at the US 18/South Town/Selch Rd intersection for coordination on changes to the existing traffic signals. If any detector loops serving the intersection are to be impacted contact Andy Winga at above number for coordination with replacement.

Lighting devices shall be covered or rendered inoperative when not in use.

Coordinate the construction schedule, including flagging operations, with local emergency service providers to assure that emergency personnel are aware of local roadways affected by the construction work. Provide a 24 hour a day contact and phone number for issues to local officials, Crawford County Sheriff, fire department, and EMS in case of an incident. Repair, replace or restore any damaged or disturbed traffic control

devices within two hours from the time notified or made aware of the damaged or disturbed traffic control devices.

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

Submit any traffic control change requests to the engineer at least 72 hours prior to an actual traffic control change. A request does not constitute approval.

Coordinate the location of traffic control devices for Stage 2C, Winter Shutdown, with the engineer and the Crawford County Highway Commissioner at least one month prior to the installation of the Stage 2C devices.

39. Pavement Marking Outfall, Item 646.0805.S.

A Description
This special provision describes furnishing and installing Pavement Marking Outfall according to standard spec 646, as shown on the plans, and as hereinafter provided. Pavement Marking Outfall shall consist of furnishing and installing white non-reflectorized markings of the specified material.

B Materials
Furnish paint that conforms to requirements of standard spec 646.2.2.

C Construction
Apply the paint a minimum thickness of 15 mils and position it on the pavement centered on the centerline of the outfall.

D Measurement
The department will measure Pavement Marking Outfall in place as units.

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

ITEM NUMBER	DESCRIPTION	UNIT
646.0805.S	Pavement Marking Outfall	Each

Payment is full compensation for furnishing all materials; preparing the surface; and for applying and protecting the work.
646-035 (20030820)

40. Temporary Traffic Signals for Bridges B-12-093, Item 661.0100.001.

This article describes modification to item 661.0100 of the standard specifications.

Remove standard spec 661.2.1, General, paragraph (3).

Replace standard spec 661.2.3, paragraph (1-5), Temporary Traffic Signals for Bridges, to read as follows:

(1) Trailer mounted traffic signals from the department's approved products list are required.

(2) Furnish control box, signal controller, communication, solar power panel, vehicle detection, and control equipment. Provide a control box with an access door that allows placing the controller in emergency flash. Provide control box access to the engineer and law enforcement agencies as required. Supply a controller capable of executing the timing program supplied in this contract for this temporary traffic signal. The department may request changes to the timing intervals during the project as required by construction or traffic conditions. Make all engineer-requested changes within 24 hours.

(3) Trailer mounted traffic signals provided shall operate as a single traffic signal system. Time based coordination of multiple traffic signal controllers shall not be used.

(4) Provide emergency flagging operations in the event of a traffic signal malfunction. Contact the manufacturer or signal technician immediately to restore operation of the traffic signal. Restore operation of the traffic signal within 4 hours of malfunction or failure.

Replace standard spec 661.3.1, General, paragraph (1-2), to read as follows:

(1) Perform work according to the WSEC. Provide and install wood poles, posts, tether wire, messenger wire, tether wire hardware, messenger wire hardware, guy wire, span wire, guy wire hardware, and span wire hardware, traffic signal cable, traffic signal faces mounting hardware, electrical service, traffic signal faces, traffic signal faces with backplates, including providing, installing, and programming the controller with control cabinet as the plans show. The traffic signals shall be timed according to the signal timings shown in the "Sequence of Operations" sheet in the plan set. Traffic signal timings shall only be used in conjunction with the construction stage(s) indicated in "Sequence of Operations" sheet in the plan set. In the event of any changes to traffic staging plan elements, including but not limited to stop bar locations, posted regulatory speed limits, or posted advisory speeds within the single lane staging area, continued use of the traffic signal plans provided shall be approved by the engineer.

(2) Request a signal inspection of the temporary traffic signal installation. Signal inspection shall occur with trailer mounted traffic signals at the locations indicated in the plan sheets to ensure proper function of communication equipment. Contact the department's regional electrical personnel 3-7 days in advance to inspect the trailer mounted temporary traffic signal system. Contact Andy Winga, Southwest Region Signal Operations, at (608) 785-9061 in advance of the preconstruction meeting with any questions regarding this bid item.

Replace standard spec 661.3.3.1, Temporary Traffic Signals for Bridges, paragraph (2-3), to read as follows:

(2) Trailer mounted traffic signals from the department's approved products list are required. Provide a battery power supply with a solar powered charging system and a backup power source. Do not use gasoline powered equipment.

(3) Maintain one generator on-site, available to power any signal trailer, on a 24-hour a day, 7 days a week basis. This includes having a responsible contact person respond to the project site, within ½ hour of receiving a call, for any emergency to the electrical supply system.

Replace standard spec 661.3.3.5, Implementation and Removal, paragraph (2), to read as follows:

(2) Upon completing the work in the single lane workzone and resumption of two-way traffic operations, if the engineer determines the bridge temporary traffic signal is no longer needed, remove the trailer mounted traffic signals and incidental materials.

Replace standard spec 661.4 Measurement, paragraph (1), to read as follows:

(1) The department will measure Temporary Traffic Signals for Bridges as a single lump sum for the entire USH 18 single lane work zone. The work zone includes all signalized approaches serving the single lane work zone section for all construction stages.

41. Temporary Sediment Basin, Item SPV.0035.01.

A Description

This special provision describes excavating and constructing temporary sediment basins as shown on the plans or as directed by the engineer, or both, and as hereinafter provided.

B Materials

Furnish backfill material with similar engineering properties to the existing native soils excavated for the sediment basins. Backfilling with the same excavated material will be allowed.

C Construction

Notify the engineer sufficiently before beginning excavation for the sediment basins so the engineer may take elevations and measurements of the existing ground before disturbance.

Excavate all materials to depth, width, and slopes as the plans show and as directed by the engineer. The engineer may change the depth and width of the basins to fit field conditions.

Place the Geotextile Fabric Type SAS as shown in the plans or as directed by the engineer.

Construct the Stone and Rock Ditch Check adjacent to the sediment basin as shown in the plans or as directed by the engineer.

Remove sediment from the sediment basin when it has accumulated to one half of the basin depth.

When the temporary sediment basin is no longer needed, as decided by the engineer, backfill the excavated area to the original ground elevation or to the new ditch/channel elevation shown in the plans or as directed by the engineer.

D Measurement
The department will measure Temporary Sediment Basin as the material excavated by the cubic yard, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.01	Temporary Sediment Basin	CY

Payment is full compensation for excavating and disposing of excavated material; for temporary storage of excavated material; for furnishing backfill; and for backfilling the excavated basin including backfilling with the excavated material.

The department will pay for removal and disposal of accumulated sediment and maintaining the basin under the bid item 628.1920 Cleaning Sediment Basins.

The department will pay separately for the Geotextile Fabric Type SAS and the Stone and Rock Ditch Checks under their standard bid items.

42. Inlet Covers Type DWY, Item SPV.0060.01; Inlet Covers Type 12SP, Item SPV.0060.02.

Furnish and install Inlet Covers Type DWY and Inlet Covers Type 12SP according to standard spec 611 and according to the plan details.

43. Traffic Control, Vertical Panel, Item SPV.0060.03.

A Description
This special provision describes the furnishing and installing vertical panels, their supporting posts, and surface-mounted bases according to the MUTCD and pertinent requirements of standard spec 643.

B Materials
Provide vertical panels and flexible supporting posts made of non-metallic material that have a reactive spring so as to be resistant to direct wheel impacts with speeds up to

60 mph, and have the capability of immediately restoring itself to a vertical position when struck by a standard vehicle.

The surface-mounted bases shall have a maximum size of 8 inches square and shall not be a hazard to vehicles.

Provide new and unused vertical panels, supporting posts, and bases.

Provide vertical panels with alternating orange and white reflective stripes according to MUTCD. The panels shall face direction of traffic as indicated on the plans and shall have an overall height above the pavement of 36 inches. The dimensions of the reflective sheeting shall be 12 inches by 24 inches. Reflective sheeting shall meet the requirements of standard spec 637.2.2.2 and shall be suitable for use on reboundable traffic control devices. The alternating orange and white stripes shall slope downward when facing the panel in the direction traffic is to flow.

C Construction
Attach vertical panels and supporting posts to the bases according to the manufacturer's recommendations. The bases shall be fastened to the pavement using the manufacturer's recommendations.

D Measurement
The department will measure Traffic Control, Vertical Panel in place by each individual panel, 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	Traffic Control, Vertical Panel	Each

Payment is full compensation for furnishing, installing, and removing the vertical panels, their supporting posts, bases and mounting hardware.

44. Utility Line Opening, Item SPV.0060.04.

A Description
This special provision describes performing the necessary excavation to uncover utilities for the purpose of determining elevation and potential conflicts with proposed storm sewer or other work, as shown on the plans or as directed by the engineer.

B (Vacant)

C Construction
Perform the excavation in such a manner that the utility in question is not damaged and the safety of the workers or area is not compromised.

Perform the utility line openings (ULO) as soon as possible and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Prior to ordering structures, perform ULO's. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening is called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. Utility line openings include a trench up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

Obtain prior approval for all utility line openings from the engineer and coordinate all ULOs with the engineer. Notify the utility engineers on their agents of this work a minimum of three days prior to the work so they may be present when the work is completed. Verify the need for performing ULO's as shown on the plans, since some of the utilities may have been or will be relocated prior to the start of construction.

D Measurement
The department will measure Utility Line Opening by each unit, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Utility Line Opening	Each

Payment is full compensation for the excavation required to expose the utility line; backfilling with existing material removed from the excavation; compacting the backfill material; restoring the site; and for cleanup.

Existing pavement, concrete curb, gutter, and sidewalk removals necessary to facilitate utility line openings shall not be considered part of or paid for under Utility Line Openings, but are considered separate and measured and paid for separately as removal items. Replacement pavement, concrete curb, gutter, and sidewalk items shall also be considered separate from Utility Line Openings and will be measured and paid for separately.

45. Sanitary Sewer Connection To Existing, Item SPV.0060.08.

A Description
This special provision describes connecting the proposed sanitary sewer main to an existing sanitary sewer main or manhole as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials
Flexible Pipe Boot: Conform to ASTM C923. Provide flexible, watertight, gasketed seals for pipe entrance holes. Boots are to have stainless steel clamp and stainless steel hardware. Pipe seal to be Press-Seal PSX or approved equal.

C Construction

(1) Core drill existing manhole to clean opening. The use of concrete saws, pneumatic hammers, chipping guns, and sledge hammers will only be permitted with the permission of the engineer.

(2) Install watertight neoprene gasket and seal with an approved non-shrink concrete grout.

(3) Prevent construction debris from entering existing sewer line when making connection.

D Measurement

The department will measure Sanitary Sewer Connection to Existing as each individual Sanitary Sewer Connection to Existing, acceptably completed.

E. Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.08	Sanitary Sewer Connection to Existing	Each

Payment is full compensation for the actual connection of new sewer to existing manholes and sanitary sewers, locating of the existing pipe, any pipe and pipe couplings, grout, and for any other labor and materials necessary.

46. Manhole – Replace/Install with Chimney Seal, Item SPV.0060.10.

A Description

This special provision describes removal and disposal of existing manhole, furnishing and installing a manhole, as shown on the plans, as further directed by the engineer in the field, and as hereinafter provided.

B Materials

B.1 Shop Drawings/Product Submittals

12. Shop Drawing: Indicate structure locations, elevations, piping, sizes and elevations of penetrations, and structure components.

13. Submit manhole covers, component construction, features, configuration, and dimensions.

14. Obtain precast concrete utility structures from single source.

15. Perform structural design according to ACI 318. Perform Work according to NPCA Quality Control Manual for Precast Plants. Conform to ASTM C-478.

16. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years of documented experience.

17. Comply with precast concrete manufacturer's instructions for unloading, storing and moving precast manholes and drainage structures.

18. Store precast concrete manholes and drainage structures to prevent damage to Owner's property or other public or private property. Repair property damaged from materials storage.

19. Mark each precast structure by indentation or waterproof paint showing date of manufacture, manufacturer, and identifying symbols and numbers shown on Drawings to indicate its intended use.

20. All materials are to be domestically made, manufactured, and produced in the United States of America.

B.2 Product Materials

(1) Precast Risers: Reinforced precast concrete according to ASTM C-478. Inside diameter to be 48 inches unless otherwise designated on the plans.

(2) Precast Bases: Reinforced precast concrete bases according to ASTM C-478. Bases shall be minimum 6 inches thick and cast integral with the first riser. Inside diameter to be 48 inches unless otherwise designated on the plans. Provide poured invert with smooth radius transitions. Flow channel shall be the same diameter as the larger of adjoining sewers.

(3) Top Section: Reinforced precast top section according to ASTM C-478. Top section shall be an eccentric cone. In the event where space does not allow for an eccentric cone top, a minimum of 8 inch thick (48 inch diameter and 60 inch diameter) may be substituted with engineer's permission.

(4) Joints: Joints to be made water tight utilizing rubber ring gasket or butyl sealant. Rubber ring gasket to comply with ASTM C-443. Butyl sealant to comply with ASTM C-990 and AASHTO M-198.

(5) Flexible Pipe Boot: Conform to ASTM C-923. Provide flexible, watertight, gasketed seals for pipe entrance holes. Boots are to have stainless steel clamp and stainless steel hardware. Pipe seal to be Press-Seal PSX or approved equal.

(6) Adjusting Rings: Provide High Density Polyethylene (HDPE) adjusting rings by Ladtech, Inc. or approved equal. HDPE to conform to ASTM D-4976. Inside diameter to be as designated on plans. Minimum thickness to be 1 inch and maximum thickness to be 6 inches. Install as per manufacturer's specifications. Place an approved butyl sealant between rings to properly seal them.

(7) Steps: Steps shall conform to ASTM C-478 and be made with an approved plastic such as copolymer polypropylene, reinforced with an 1/2 inch diameter Grade 60 steel reinforcing bar. Steps to be manufactured by M.A. Industries or an approved equal. Steps shall be 12 inches wide, 16 inches on center vertically, and be set into structure wall.

(8) Frames and Covers: Frames and covers to be Neenah Foundry Co. Model No. R-1916-C with non-rocking, self-sealing, bolt-down lid with stainless steel bolts or R-1550 with non-rocking, self-sealing, Type "B" lid with sealed pick holes as per plans or approved equal. Castings to conform to ASTM A48, Class 30B Cast iron construction. Lids shall be of uniform quality, free from blow holes, porosity, hard spots, shrinkage defects, cracks or other serious defects. Lids shall also have machined flat bearing surface, sealed pick holes, self-sealing neoprene o-ring gasket, and be traffic rated (unless otherwise noted).

(9) External Joint Seals: An external joint seal shall be installed on each section joint of all sanitary manholes and for concrete adjustment rings according to the manufacturer's instructions. External joint seal shall meet or exceed the requirements of ASTM C-877, type II. External joint seals shall be CretexWrap External Manhole Joint Seals, MacWrap, or pre-approved equal conforming to the following requirements:

> External joint seals shall consist of a collar 9" wide with an outer layer of polyethylene, with a minimum tensile strength of 4000 psi and a minimum tear resistance of 1500 psi, and an under layer of rubberized mastic that is reinforced with a woven polypropylene fabric. Two 5/8" steel straps shall be located within the collar ¾ inches from each edge. The straps shall be confined in tubes that isolate them from the mastic and allow them to slip freely when mechanically tightened and locked around the manhole joint. The collar shall be furnished with a minimum of 6" overlap and a closing flap to cover any remaining exposed strap. External joint seals shall be able to withstand a 13 psi air test.

(10) Frame/chimney seal: As shown on the plans or directed by the engineer, a frame/chimney seal with extensions where needed to cover the entire chimney area, shall be installed on sanitary manholes according to the manufacturer's instructions. Products or a pre-approved equal conforming to the following requirements:

A. For manholes located in pavement, an internal seal shall be used, Cretex or pre-approved equal.
B. For manholes located outside of pavement (lawn areas), an internal/external seal shall be used, Adaptor, inc. or pre-approved equal.

(11) Tee Post Marker: A tee post marker shall be installed at each manhole when not located in a paved surface. Tee post marker should be a steel fence post, 8' in length, meeting the requirements of ASTM A702.

C Construction

C.1 Preparation

(1) Verify that items provided by other sections of Work are properly sized and located.

(2) Verify that built-in items are in proper location, and ready for roughing into Work.

(3) Verify correct size of manhole and structure excavation.

(4) Coordinate placement of inlet and outlet pipe required by other sections.

(5) Do not install manholes and structures where site conditions induce loads exceeding structural capacity of manholes or structures.

(6) Inspect precast concrete manholes and structures immediately prior to placement in excavation to verify manholes and structures are internally clean and free from damage. Remove and replace damaged units.

C.2 Installation

(1) Excavation and Backfill:

a. Excavate for manholes and structures according to Section 205 of the Standard Specifications in location and to depth shown. Provide clearance around sidewalls of manhole or structure for construction operations, and granular backfill. When groundwater is encountered, prevent accumulation of water in excavations. Place manholes or structures in dry trench. If contractor is unable to place manhole or structure in dry trench, he is to contact engineer for direction.
b. Where possibility exists of watertight manhole or structure becoming buoyant in flooded excavation, anchor manhole or structure to avoid flotation.
c. If over excavation occurs, backfill with concrete or compacted granular material.

(2) Construct standard manholes of precast bases, precast risers, precast top section, adjustment rings, and appurtenances according to standard detail.

(3) Install manholes and structures supported at proper grade and alignment on 6 inches of granular material as per Section 209 of WISDOT Standard Specifications. If wet conditions persist, install 6 inches of 1 ½ inch diameter washed stone.

(4) Install external joint seals on each section joint of all sanitary manholes and for concrete adjustment rings according to the manufacturer's instructions.

(5) Backfill excavations for manholes and structures according to the Backfill Section in these special provisions.

(6) Lift precast manholes and structures at lifting points designated by manufacturer. When lowering manholes and structures into excavations and joining pipe to units, take precautions to ensure interior of pipeline and manhole or structure remains clean.

(7) Set precast manholes and structures bearing firmly and fully on 6 inches crushed stone bedding, compacted according to these special provisions or on other support system shown on Drawings.

(8) Assemble multi-section manholes and structures by lowering each section into excavation. Install compatible rubber ring gasket or butyl sealant between precast sections according to manufacturer's recommendations. Under weight of superimposed sections, gasket material shall form a tightly packed, watertight seal in annular joint space. Lower, set level, and firmly position base section before placing additional sections.

(9) Remove foreign materials from joint surfaces and verify sealing materials are placed properly. Maintain alignment between sections by using guide devices affixed to lower section.

(10) Joint sealing materials may be installed on site or at manufacturer's plant.

(11) Verify manholes and structures installed satisfy required alignment and grade.

(12) Remove knockouts or cut structure to receive piping without creating openings larger than required to receive pipe. Fill annular space with hydraulic, non-shrink mortar.

(13) Cut pipe to finish flush with interior of manhole or structure.

(14) Complete pipe seals according to the manufacturer's instructions. For manholes with flexible seals, support pipe outside of manhole by bedding as specified for type of pipe installed.

(15) Set frames using mortar and adjustment rings. Butyl sealant shall be placed between precast cone and first ring, between individual rings, and between top ring and casting. Set cover frames and covers to within plus 0.00 feet to minus 0.05 feet of grade shown for finished pavement. Match street grades and cross-slope.

(16) Install external/internal seal for casting and adjustment rings as per manufacturer's instructions for the designated manholes as per the plans or directed by the engineer.

(17) When located in an unpaved area, set frame and cover 6 inches above finished grade to allow area to be graded away from cover beginning 2 inches below top surface of frame.

(18) Test concrete manhole and structure sections according to ASTM C-497.

(19) Install tee post marker in locations where manhole is not located in a paved surface and not located in a terrace area (i.e. between curb and sidewalk/path). Tee post marker to set so 3' of post is buried.

C.3 Manhole Grade Adjustment

(1) Where required, adjust top elevation of manholes and structures to final grade as indicated on the plans or as directed by the engineer.

(2) Use flat or tapered HDPE manhole rings to achieve elevation indicated for frame and cover. Do not adjust elevation more than 6 inches with HDPE manhole rings.

(3) Seal joints between manhole top, adjustment rings, and frame with sealant.

(4) Reinstall removed manhole frame and cover.

See Table A: Sanitary Sewer Manholes for a schedule of sizes, castings, and elevations.

D Measurement

The department will measure Manhole – Replace/Install with Chimney Seal as each individual Manhole – Replace/Install with Chimney Seal, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Manhole – Replace/Install with Chimney Seal	Each

Payment is full compensation for removal and disposal of existing sanitary manhole materials, maintaining existing sanitary sewer main service, furnishing and installing the precast manhole, adjustment rings, cover frame and cover, bedding, backfill, forming and sealing of pipe inlets and outlets, all internal/external seals, and tee post marker (where required).

47. Sanitary Sewer Lateral Replace, Item SPV.0060.11.

A Description

This special provision describes replacing existing sanitary sewer laterals and reconnecting existing sanitary sewer laterals to proposed sanitary sewer main as shown on the plans, as directed by the engineer, and as hereinafter provided.

B Materials

B.1 Shop Drawings/Product Submittals

(1) Product Data: Submit catalog cuts and other pertinent data indicating proposed materials, accessories, details, and construction information.

(2) Manufacturer's Installation Instructions:
   a. Indicate special procedures required to install Products specified.

(4) Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years of documented experience.

(5) Installer: Company specializing in performing work of this section with minimum one year of documented experience.

(6) Project Record Documents:

a. Record location of pipe runs, connections, manholes, cleanouts, and invert elevations.
b. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.
c. Provide the Post-Installation Televised Sewer Report and Video.

B.2 Product Materials

(1) Plastic Pipe: ASTM D-1785, Schedule 40, Polyvinyl Chloride (PVC) material; inside nominal diameter of 4 inches, unless noted otherwise on drawings, bell and spigot style solvent sealed joint ends. Markings: Each pipe shall be stamped or marked with it type and class and the manufacturer's name or mark.

(2) Fittings: ASTM D-2466, PVC.

(3) Joints: Joints to be made water tight and according to ASTM D-2855, solvent weld with solvent cement according to ASTM D-2564.

(4) Flexible Coupling: Conform to ASTM C-1173. Resilient chemical-resistant elastometric polyvinyl chloride (PVC) coupling, two stainless steel clamps and stainless steel screws and housings. Couplings used shall be sized to match the outside diameter of pipes to be joined.

(5) All materials to be domestically made, manufactured, and produced in the United States of America.

C Construction

C.1 Preparation

(1) Block individual and stockpiled pipe lengths to prevent moving.

(2) Do not place pipe or pipe materials on private property or in areas obstructing pedestrian or vehicle traffic. Do not place pipe flat on ground. Cradle to prevent point stress.

(3) Store UV sensitive materials out of direct sunlight.

(4) Verify that field measurements and elevations are as indicated on the drawings.

(5) Verify that excavation base is ready to receive work and that excavations, dimensions, and elevations are as indicated on drawings. Notify engineer of any discrepancies.

(6) Owner will provide line and grade at a convenient offset. Contractor shall be responsible for preservation of line and grade markings if disturbed, shall pay actual cost of replacement. Give three working days prior notice of need for line and grade.

(7) Contractor shall transfer line and grade from offset to sewer by means of laser beam equipment or other approved methods. Inform engineer of proposed methods and equipment prior to construction. Discontinue methods that do not produce accurate control for setting line and grade.

C.2 Installation

(1) Excavate pipe trench according to the Trenching Section in these special provisions.

(2) Excavate to lines and grades shown on Drawings or as per line and grade furnished by Owner.

(3) Dewater excavations to maintain dry conditions and preserve final grades at bottom of excavation.

(4) Provide sheeting and shoring according to the Trenching Section in these special provisions.

(5) Correct over excavation with fine aggregate or washed stone in wet conditions.

(6) Remove large stones or other hard matter capable of damaging pipe or impeding consistent backfilling or compaction.

(7) Protect and support existing sewer lines, utilities and appurtenances.

(8) Maintain profiles of utilities. Coordinate with other utilities to eliminate interference. Notify engineer where crossing conflicts occur.

(9) Place bedding material as per the Backfill Section in these special provisions.

(10) Pipe shall be laid immediately following the preparation of the bedding material.

(11) Install wye branches or pipe tees at locations indicated on Drawings, or when re-connecting existing laterals, do so at the exact location of the existing lateral. They shall be laid concurrently with pipe laying operations. Use standard fittings of same material and joint type as sanitary sewer main.

(12) When feasible, maintain minimum 5 feet separation distance between wye connection and manhole.

(13) Laterals shall be laid according to the local plumbing code and Wisconsin Administrative Code Section Comm 82.30.

(14) Construct laterals from wye branch to terminal point at right-of-way or as indicated on drawings. Where depth of main pipeline warrants, construct riser type laterals from wye branch.

(15) Place backfill material around and above the pipe as per the Backfill Section in these special provisions.

(16) When feasible, maintain minimum 5 feet separation distance between laterals. Laterals shall be laid as nearly as possible perpendicular to main line sewer. Contractor to keep an accurate record of the lengths and locations of laterals.

(17) Minimum grade of lateral piping shall be 1/4 inch per foot. A grade of 1/8 inch per foot may be used in situations where cover is a concern or where basement drainage is a concern.

(18) For newly installed laterals, install watertight plug, braced to withstand pipeline test pressure thrust, at termination of lateral, which, unless noted on drawings, shall be the right-of-way. Install temporary marker stake extending from end of lateral to 48 inches above finished grade. Paint top 6 inches of stake with fluorescent green paint.

(19) When reconnecting to an existing lateral, install an appropriate flexible pipe coupling according to the manufacturer's directions to ensure a water tight joint.

(20) Protect pipe and aggregate cover from damage or displacement until backfilling operation is complete. Take care not to damage or displace installed pipe and joints during construction of pipe supports, backfilling, testing, and other operations. Repair or replace pipe that is damaged or displaced from construction operations.

C.3 Field Quality Control

(1) Pressure Test: Test according to the Sewer and Manhole Testing Section in these special provisions.

(2) Infiltration Test: Test according to the Sewer and Manhole Testing Section in these special provisions.

(3) Closed-Circuit Televising of Sanitary Sewer: Test according to the Sewer and Manhole Testing Section in these special provisions. After installation, the contractor shall have the sanitary sewer main televised by a company qualified to televise sanitary sewer mains and approved by the Owner.

(4) When tests indicate work does not meet specified requirements, remove work, replace and retest.

(5) Request inspection prior to and immediately after placing bedding.

D Measurement

The department will measure Sanitary Sewer Lateral Replace as each individual Sanitary Sewer Lateral Replace, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.11	Sanitary Sewer Lateral Replace	Each

Payment is full compensation for locating and verifying the existing lateral and its activeness, connecting to the existing lateral, removal and disposal of existing sanitary sewer lateral materials, maintaining existing sanitary sewer lateral service, materials, pipe and fittings, couplings, excavation, bedding, and backfilling.

48. Water Main Connection To Existing, Item SPV.0060.13.

A Description

This special provision describes connecting the proposed water main to existing water main as shown on the plans, directed by the engineer, and as hereinafter provided.

B Materials

All materials must conform to NSF/ANSI 61; NSF/ANSI 61 A Max G; and NSF/ANSI 372 Standards- No Lead in water system components (except service saddles).

All couplings and sleeves shall be solid sleeves meeting the requirements Fittings: Ductile iron, Full Body fittings conforming to AWWA C110 or Compact fittings conforming to AWWA C153. Foundry to be NSF 61 certified. 250 psig working pressure.

1. Coating and Lining:
    a. Bituminous Coating: AWWA C110.
    b. Cement Mortar Lining: AWWA C104, standard thickness.

C Construction

(1) Verify existing utility water main sizes, locations, and elevations are as indicated on Drawings.

(2) Cut pipe ends square, ream pipe and tube ends to full pipe diameter, remove burrs. Use only equipment specifically designed for pipe cutting. The use of chisels or hand saws will not be permitted. Grind edges smooth with beveled end for push-on connections.

(3) Remove scale and dirt on inside and outside before assembly.

(4) Prepare pipe connections to equipment with flanges or unions.

(5) Prevent foreign material from entering water main pipes when making connection.

D Measurement

The department will measure Water Main Connection to Existing as each individual Water Main Connection to Existing, 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	Water Main Connection to Existing	Each

Payment is full compensation for the actual connection of new water main to existing water main pipe and fittings, locating existing water main pipe and fittings, maintaining water system service, excavation, bedding, backfilling, any pipe and appurtenances required for connection.

49. Remove Existing Fire Hydrant, Item SPV.0060.14.

A Description
This special provision describes removing and disposing of existing fire hydrants at locations shown on the plans, as directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction
Existing Fire Hydrants removed to a minimum of 5 feet below finished grade or to the hydrant elbow, whichever is less. Cut off hydrant stand pipe, seal pipe, and backfill and compact the resultant depression. Sealing the pipe is considered incidental to this item. Salvage the existing fire hydrant to the Owner.

D Measurement
The department will measure Remove Existing Fire Hydrant as each individual Existing Fire Hydrant Removed, 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	Remove Existing Fire Hydrant	Each

Payment is full compensation for excavation, removing the existing fire hydrant, sealing the pipe, backfilling and compacting.

50. Remove Existing Valve, Item SPV.0060.15.

A Description
This special provision describes removing and disposing of existing valves at locations shown on the plans, as directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction
Existing Valves to be removed are to be closed, the valve box removed, and the resulting depression backfilled and compacted.

D Measurement
The department will measure Remove Existing Valve as each individual Existing Valve Removed, 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	Remove Existing Valve	Each

Payment is full compensation for closing the valve, excavation, removing the valve box, backfilling and compacting.

51. Fire Hydrant 6-Inch (w/6" Hydrant Lead), Item SPV.0060.16.

A Description
This special provision describes furnishing and installing 6-inch fire hydrants with 6-inch hydrant leads and all associated fittings as shown on the plans, as further directed by the engineer in the field, and as hereinafter provided.

B Materials
B.1 References
(1) American Water Works Association:
   a. AWWA C502 - Dry-Barrel Fire Hydrants.
   b. AWWA C509 - Resilient-Seated Gate Valves for Water-Supply Service.
   c. AWWA C550 - Protecting Epoxy Interior Coating for Valves and Hydrants.
   d. AWWA C600 - Installation of Ductile-Iron Water Mains and Their Appurtenances.

(2) National Sanitation Foundation:
   a. NSF 61 - Drinking Water System Components - Health Effects

(3) National Fire Protection Agency
   a. NFPA 281 - Recommended Practice for Fire Flow Testing and Marking of Hydrants.

B.2 Product Submittals
(1) All materials to be domestically made, manufactured, and produced in the United States of America.

(2) Product Data: Submit product data to be used including hydrants, pipes, and accessories.

(3) Design Data: Submit manufacturer's latest published literature including illustrations, installation instructions, maintenance instructions and parts lists.

(4) Manufacturer's Installation Instructions:
    a. Indicate special procedures required to install Products specified.

(5) Manufacturer's Certificates: Submit Statement of Compliance, supporting data, from material suppliers attesting that valves, hydrants, and accessories provided meet or exceed AWWA Standards and specification requirements.

(6) Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years of documented experience.

(7) Installer: Company specializing in performing work of this section with minimum one year of documented experience.

(8) Project Record Documents:
    a. Record actual locations of hydrants, fittings, connections, thrust blocks, joint restraints, valves, and elevations.
    b. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.
    c. Provide Operation and Maintenance Data for fire hydrants and valves.

B.3 Product Materials

B.3.1 Fire Hydrants:

(1) Manufacturers:
    a. Waterous, by American Flow Control
    b. Substitutions: Not Permitted.

(2) Dry-barrel Break-away Type: AWWA C502; cast-iron body, compression type valve.
    a. Bury Depth: As indicated on the Drawings
    b. Inlet Connection: 6 inches
    c. Valve Opening: 5-1/4 inches diameter
    d. Ends: Mechanical Joint
    e. Bolts and Nuts: Corrosion resistant
    f. Coating: AWWA C550; interior
    g. Direction of Opening: Counterclockwise unless otherwise indicated.
    h. Operating Nut: Pentagon shape, 1 inch on each side
    i. Traffic flange with no-flow separation
    j. Outlets: Pumper, one - 4 ½ inches; Hose Nozzles, two - 2 ½ inches. Threads to be National Standard Threads.
    k. Attach nozzle caps by heavy chains
    l. Finish: Primer and two coats of enamel color according to fire department requirements.

(3) 6” Hydrant Lead: Polyvinyl Chloride (PVC) Class 150, DR 18. AWWA C900, Ductile iron outside diameter for nominal thickness, rated water working pressure and maximum depth of cover.

B.3.2 Accessories:

(1) Concrete for Thrust Restraints: Conform to standard spec 501. Solid concrete blocks may be substituted with permission from engineer.

(2) Tracer Wire and Terminal Box: Magnetic detectable conductor, 12 gauge, brightly colored plastic covering. Required for PVC water main installations. Terminate at fire hydrants with a tracer wire access box, Valveco TWAB or preapproved equal, as indicated on the Plans.

(3) Aggregate: Aggregate for hydrant drainage to be 1 inch (or whatever is locally produced) clean stone wrapped in filter fabric.

(4) Joints connecting pipes to fittings, valves, and hydrants shall be restrained the required restrained length on each side of the fitting. One of the following shall be used.
   a. Joint restraint gasket on push-on joint pipe and fittings. U.S. Pipe/Field Lok Gasket, American Fast-Grip Gasket, or approved equal.
   b. Use of wedge type restraining glands on mechanical joint pipe and fittings: Tyler Union TUFGrip or approved equal. Use Series 1000 for ductile/cast iron pipe and Series 2000 for PVC pipe.

C Construction

C.1 Preparation

(1) Prepare valves, hydrants and accessories for shipment according to AWWA Standards and seal valve, hydrant and ends to prevent entry of foreign matter into product body.

(2) Store products in areas protected from weather, moisture, or possible damage; do not store products directly on ground; handle products to prevent damage to interior or exterior surfaces.

(3) Conduct operations not to interfere with, interrupt, damage, destroy, or endanger integrity of surface or subsurface structures or utilities, and landscape in immediate or adjacent areas.

(4) Verify that field measurements and elevations are as indicated on the drawings.

(5) Verify that excavation base is ready to receive work and that excavations, dimensions, and elevations are as indicated on drawings. Notify engineer of any discrepancies.

(6) Identify required lines, levels, contours and datum locations.

(7) Locate, identify, and protect utilities to remain from damage.

(8) Do not interrupt existing utilities without permission and without making arrangements to provide temporary utility services.

(9) Perform trench excavation according to the Trenching Section in these special provisions.

(10) Perform bedding, backfilling and compaction according to the Backfill Section in these special provisions.

C.2 Installation

(1) Install fire hydrants; provide support blocking and drainage gravel; do not block drain hole.

(2) Set hydrants plumb with pumper nozzle facing roadway; set hydrants with centerline of pumper nozzle 18 inches above finished grade and safety flange not more than 6 inches nor less than 2 inches above grade.

(3) Paint hydrants according to local color scheme.

(4) After hydrostatic testing, flush hydrants and check for proper drainage.

(5) Install access fittings to permit flushing and disinfection of water system performed under the Disinfection of Water Distribution System Section in these special provisions.

(6) Protect pipe and aggregate from damage or displacement until backfilling operation is complete. Take care not to damage or displace installed pipe and joints during construction of pipe supports, backfilling, testing, and other operations. Repair or replace pipe that is damaged or displaced from construction operations.

C.3 Field Quality Control

(1) Disinfection: Flush and disinfect potable water distribution system according to the Disinfection of Water Distribution System Section in these special provisions.

(2) Pressure Test: Perform pressure test on fire hydrants according to AWWA C600 and the Water Main Section in these special provisions.

D Measurement

The department will measure Fire Hydrant 6-Inch (w/6" Hydrant Lead) as each individual Fire Hydrant 6-Inch (w/6" Hydrant Lead) installed and 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.0060.16	Fire Hydrant 6-Inch (w/6" Hydrant Lead)	Each

Payment is full compensation for excavation, trenching, bedding, fire hydrant, fire hydrant lead from water main, thrust blocking, joint restraints, tracer wire access box, accessories, tests, and backfilling.

52. Water Main Gate Valve 6-Inch, Item SPV.0060.17; 8-Inch, Item SPV.0060.18.

A Description

This special provision describes furnishing and installing water main gate valves and all associated fittings as shown on the plans, as further directed by the engineer in the field, and as hereinafter provided.

B Materials

B.1 References

(1) American Water Works Association:
   a. AWWA C502 - Dry-Barrel Fire Hydrants.
   b. AWWA C509 - Resilient-Seated Gate Valves for Water-Supply Service.
   c. AWWA C550 - Protecting Epoxy Interior Coating for Valves and Hydrants.
   d. AWWA C600 - Installation of Ductile-Iron Water Mains and Their Appurtenances.

(2) National Sanitation Foundation:
   a. NSF 61 - Drinking Water System Components - Health Effects

B.2 Product Submittals

(1) All materials to be domestically made, manufactured, and produced in the United States of America.

(2) Product Data: Submit product data to be used including hydrants, pipes, and accessories.

(3) Design Data: Submit manufacturer's latest published literature including illustrations, installation instructions, maintenance instructions and parts lists.

(4) Manufacturer's Installation Instructions:
   a. Indicate special procedures required to install Products specified.

(5) Manufacturer’s Certificates: Submit Statement of Compliance, supporting data, from material suppliers attesting that valves, hydrants, and accessories provided meet or exceed AWWA Standards and specification requirements.

(6) Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years of documented experience.

(7) Installer: Company specializing in performing work of this section with minimum one year of documented experience.

(8) Project Record Documents:
    a. Record actual locations of hydrants, fittings, connections, thrust blocks, joint restraints, valves, and elevations.
    b. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.
    c. Provide Operation and Maintenance Data for fire hydrants and valves.

B.3 Product Materials

B.3.1 Resilient Wedge Gate Valves:

(1) Manufacturers:
    a. Mueller Company
    b. American Flow Control
    c. Kennedy
    d. Substitutions: Pre-approved equal.

(2) Resilient Wedge Gate Valves: AWWA C509; ductile iron.
    a. Resilient seats.
    b. Stem: Non-rising bronze stem.
    c. Operating Nut: 2 inch square; open counterclockwise unless otherwise indicated.
    d. Ends: Mechanical joint connections.
    e. Coating: AWWA C550; interior/exterior.
    f. Sizes 12 inch diameter and smaller: working pressure, 150 psig, tested to 300 psig.

B.3.2 Valve Boxes:

(1) Valve boxes to be Tyler/Union 6860 series or equal.

(2) Valve boxes to be domestic cast iron, three-piece, screw type; #6 round base.

(3) Cast iron lid, marked "Water".

(4) Provide Gate Valve Adaptor by Adaptor, Inc. or pre-approved equal.

(5) Tee Post Marker: A tee post marker shall be installed at each manhole when not located in a paved surface. Tee post marker should be a steel fence post, 8' in length, meeting the requirements of ASTM A702.

C Construction

C.1 Preparation

(1) Prepare valves, hydrants and accessories for shipment according to AWWA Standards and seal valve, hydrant and ends to prevent entry of foreign matter into product body.

(2) Deliver and store valves in shipping containers with labeling in place. Store products in areas protected from weather, moisture, or possible damage; do not store products directly on ground; handle products to prevent damage to interior or exterior surfaces.

(3) Conduct operations not to interfere with, interrupt, damage, destroy, or endanger integrity of surface or subsurface structures or utilities, and landscape in immediate or adjacent areas.

(4) Verify that field measurements and elevations are as indicated on the drawings.

(5) Verify that excavation base is ready to receive work and that excavations, dimensions, and elevations are as indicated on drawings. Notify engineer of any discrepancies.

(6) Identify required lines, levels, contours and datum locations.

(7) Locate, identify, and protect utilities to remain from damage.

(8) Do not interrupt existing utilities without permission and without making arrangements to provide temporary utility services.

(9) Perform trench excavation according to the Trenching Section in these special provisions.

(10) Perform bedding, backfilling and compaction according to the Backfill Section in these special provisions.

C.2 Installation

(1) Install valves in conjunction with pipe laying according to the Water Main Section in these special provisions. Set valves plumb. Contractor to verify that valve will be operated with valve wrench.

(2) Provide buried valves with valve boxes installed flush with finished grade.

(3) Install Gate Valve Adaptors according to manufacturer's instructions.

(5) Protect valve and valve box from damage or displacement until backfilling operation is complete. Take care not to damage or displace installed valves and valve boxes during construction of pipe supports, backfilling, testing, and other operations. Repair or replace valve or valve box that is damaged or displaced from construction operations.

(6) Install tee post marker in locations where manhole is not located in a paved surface and not located in a terrace area (i.e. between curb and sidewalk/path). Tee post marker to set so 3' of post is buried.

C.3 Field Quality Control

(1) Disinfection: Flush and disinfect potable water distribution system according to the Disinfection of Water Distribution System Section in these special provisions.

(2) Pressure Test: Perform pressure test on valves according to AWWA C600 and the Water Main Section in these special provisions.

D Measurement

The department will measure Water Main Gate Valve (size) as each individual gate valve installed and 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.0060.17	Water Main Gate Valve 6-Inch	Each
SPV.0060.18	Water Main Gate Valve 8-Inch	Each

Payment is full compensation for excavation, trenching, bedding, gate valve, valve box, gate valve adaptor, fittings, concrete thrust blocks, joint restraints, accessories, tests, backfilling, and tee post marker (where required).

53. Water Service Replace 1-Inch, Item SPV.0060.21.

A Description

This special provision describes reconnecting, replacing, or installing new water services as shown on the plans, as further directed by the engineer in the field, and as hereinafter provided.

B Materials

B.1 References

(1) ASTM International:

a. ASTM B62 - Standard Specification for Composition Bronze or Ounce Metal Castings.
b. ASTM B88 - Standard Specification for Seamless Copper Water Tube.
c. ASTM D2241 - Standard Specification for Polyvinyl Chloride (PVC) Pressure-Rated Pipe (SDR Series).
d. ASTM D3350 – Standard Specification for Polyethylene Plastic Pipe and Fittings Material.

(2) American Welding Society:

a. AWS A5.8 - Specification for Filler Metals for Brazing and Braze Welding.

(3) American Water Works Association:

a. AWWA C600 - Installation of Ductile-Iron Water Mains and Their Appurtenances.
b. AWWA C800 - Underground Service Line Valves and Fittings.
c. AWWA C901 – Polyethylene (PE) Pressure Pipe and Tubing, ½ inch through 3 inch, for Water Service.

B.2 Product Submittals

(1) All materials to be domestically made, manufactured, and produced in the United States of America.

(2) Product Data: Submit data on pipe materials, pipe fittings, corporation stop assemblies, curb stop assemblies, meters, meter setting equipment, service saddles, and accessories.

(3) Manufacturer's Installation Instructions:
   a. Indicate special procedures required to install Products specified.

(4) Manufacturer's Certificates: Certify Products meet or exceed specified requirements.

(5) Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years of documented experience.

(6) Installer: Company specializing in performing work of this section with minimum one year of documented experience.

(7) Project Record Documents:
   a. Record actual locations of piping, curb stops, connections, thrust restraints, and elevations.
   b. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

B.3 Product Materials

B.3.1 Water Service Piping and Fittings:

(1) Copper Tubing: ASTM B88, Type K, soft annealed seamless copper:
   a. Product: Name of manufacturer shall be plainly marked on all piping and fittings.
   b. Fittings: ASME B16.18, cast copper, or ASME B16.22, wrought copper.
   c. Joints: Compression connection.

B.3.2 Corporation Stop Assembly:

(1) Manufacturers:
   a. A.Y. McDonald Ball Valve Corporation Stop, Model 74701BQ.
   b. Substitutions: Pre-approved equal.

(2) Corporation Stops:
   a. Brass body conforming to ASTM B62.
   b. Compression type joints.
   c. Inlet end threaded for tapping according to AWWA C800.
   d. Outlet end suitable for service pipe specified.

(3) Service Saddles:
   Provide saddle designed to hold pressures in excess of pipe working pressure. Cascade Waterworks Manufacturing stainless steel water service saddle, Style CSC2, Smith-Blair Model 317, or pre-approved equal.

B.3.3 Curb Stop Assembly:

(1) Manufacturers:
   a. A.Y. McDonald Model 76104Q Minneapolis Ball Valve.
   b. Mueller Company Mark II^{R} Valve.
   c. Substitutions: Pre-approved equal.

(2) Curb Stops:
   a. Conform to AWWA C800.
   b. Brass body conforming to ASTM B62.
   c. Compression type joints.
   d. Positive pressure sealing.

(3) Curb Boxes and Covers:
   a. Cast iron body, screw type.
   b. Arch pattern Base.
   c. Tyler Union 6500 Series, box 100-F (30T, 21B, and #154 ext), or approved equal.
   d. Provide enlarged base for curb stops 2 inches or greater.
   e. 2 ½" "Water Lid", with brass screw, standard water main pentagon.

B.3.4 Accessories:

(1) Concrete for Thrust Restraints: Concrete type specified in standard spec 501. Solid concrete blocks may be substituted with permission from engineer.

(2) Concrete Blocks for Support: Solid concrete, 8"x16"x4" blocks.

C Construction

C.1 Preparation

(1) During loading, transporting, and unloading of materials and products, exercise care to prevent any damage.

(2) Store products and materials off ground and under protective coverings and custody, away from walls, and in manner to keep these clean and in good condition until used.

(3) Exercise care in handling precast concrete products to avoid chipping, cracking, and breakage.

(4) Conduct operations not to interfere with, interrupt, damage, destroy, or endanger integrity of surface or subsurface structures or utilities, and landscape in immediate or adjacent areas.

(5) Verify size, location, and elevation of the building service connection and municipal water main.

(6) Verify that excavation base is ready to receive work and that excavations, dimensions, and elevations are as indicated on drawings. Notify engineer of any discrepancies.

(7) Identify required lines, levels, contours and datum locations.

(8) Locate, identify, and protect utilities to remain from damage.

(9) Do not interrupt existing utilities without permission and without making arrangements to provide temporary utility services.

(10) Perform trench excavation according to the Trenching Section in these special provisions.

(11) Cut pipe ends square, ream pipe and tube ends to full pipe diameter, remove burrs.

(12) Remove scale and dirt on inside and outside before assembly.

(13) Prepare pipe connections to equipment with flanges or unions.

(14) Perform bedding, backfilling and compaction according to the Backfill Section in these special provisions.

C.2 Installation

C.2.1 Corporation Stop Assembly:

(1) Make connection for each different kind of water main using suitable materials, equipment and methods approved by the engineer.

(2) Provide service clamps (saddles) for mains other than of cast iron or ductile iron mains.

(3) Screw corporation stops directly into tapped and threaded iron main at 9 and 3 o'clock position on main's circumference; locate corporation stops at least 24 inches apart longitudinally and staggered.

(4) For plastic pipe water mains, provide full support for service clamp for full circumference of pipe, with minimum 2 inches width of bearing area; exercise care against crushing or causing other damage to water mains at time of tapping or installing service clamp or corporation stop.

(5) Use proper seals or other devices so no leaks are left in water mains at points of tapping; do not backfill and cover service connection until approved by the engineer.

C.2.2 Pipe and Fittings:

(1) Excavate pipe trench according to the Trenching Section in these special provisions.

(2) Place bedding material at trench bottom according to the Backfill Section in these special provisions.

(3) Backfill around sides and to top of pipe according to the Backfill Section in these special provisions.

(4) Maintain optimum moisture content of fill material to attain required compaction density.

(5) Place backfill material according to the Backfill Section in these special provisions.

(6) Maintain separation of water main from sewer piping according to State of Wisconsin Plumbing code.

(7) Group piping with other site piping work whenever practical.

(8) Install pipe to indicated elevation to within tolerance of 1 inch.

(9) Route pipe in straight line.

(10) Provide copper service pipe free of splices from corporation cock to property line or curb stop.

(11) Install pipe to allow for expansion and contraction without stressing pipe or joints.

(12) Install access fittings to permit disinfection of water system performed under the Water Main Section and according to the Disinfection of Water Distribution System Section in these special provisions.

(13) Form and place concrete for thrust restraints at each elbow or change of direction of pipe main.

(14) Establish elevations of buried piping with not less than 7 feet of cover.

(15) Provide tracer wire for all polyethylene and PVC pipe and connect to tracer wire on main line piping. Install tracer wire access at location designated by engineer.

(16) Protect all water service piping, valves, curb stop box, and fittings from damage or displacement until backfilling operation is complete. Take care not to damage or displace installed piping, valves, curb stop boxes, and fittings during construction of pipe supports, backfilling, testing, and other operations. Repair or replace water service piping, valves, curb stop boxes, and fittings that are damaged or displaced from construction operations.

C.2.3 Curb Stop Assembly:

(1) Set curb stops on solid bearing and on solid concrete 8”x16”x4” block(s).

(2) Center and plumb curb box over curb stops. Set box cover flush with finished grade.

(3) Install curb stop assembly at property line. New services shall be provided with a stub pipe which is peened closed. Mark end with 4-inch x 4-inch post, 6 feet long, projecting 48 inches out of ground, and painted blue. Existing services which are relaid or reconnected to shall be reconnected at lot line with a suitable pipe coupling.

C.3 Field Quality Control

(1) Disinfection: Flush and disinfect potable water distribution system according to the Disinfection of Water Distribution System Section in these special provisions.

(2) Pressure Test: Perform pressure test according to AWWA C600 and the Water Main Section in these special provisions.

(3) When tests indicate Work does not meet specified requirements, remove Work, replace and retest.

D Measurement

The department will measure Water Service Replace 1-Inch as each individual 1-Inch Water Service Replaced, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Water Service Replace 1-Inch	Each

Payment is full compensation for excavation, trenching, bedding, backfilling, maintaining existing water system service, connection to the proposed water main, connection to the existing water service piping, corporation stop, curb stop, curb box and cover, piping, fittings, concrete blocks, accessories, and tests.

54. Concrete Curb and Gutter 6-Inch Sloped 20-Inch Type G, Item SPV.0090.01; Concrete Curb and Gutter HES 6-Inch Sloped 36-Inch Type A, Item SPV.0090.02; Concrete Curb and Gutter HES 30-Inch Type D, Item SPV.0090.03.

Construct the Concrete Curb 6-Inch Sloped 20-Inch Type G, Concrete Curb and Gutter HES 6-Inch Sloped 36-Inch Type A, and Concrete Curb and Gutter HES 30-Inch Type D according to standard spec 601 and according to the plan details. Furnish high early strength concrete under the HES bid items.

55. Sanitary Sewer SDR 35 PVC 8-Inch, Item SPV.0090.05.

A Description

This special provision describes furnishing and installing sanitary sewer as shown on the plans, as further directed by the engineer in the field, and as hereinafter provided.

B Materials

B.1 Shop Drawings/Product Submittals

(1) All materials to be domestically made, manufactured, and produced in the United States of America.

(2) Product Data: Submit catalog cuts and other pertinent data indicating proposed materials, accessories, details, and construction information.

(3) Submit reports indicating field tests made and results obtained.

(4) Manufacturer's Installation Instructions:
    a. Indicate special procedures required to install Products specified.

(5) Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years of documented experience.

(6) Installer: Company specializing in performing work of this section with minimum one year of documented experience.

(7) Project Record Documents:
    a. Record location of pipe runs, connections, manholes, cleanouts, and invert elevations.
    b. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.
    c. Provide the Post-Installation Televised Sewer Report and Video.

B.2 Product Materials

(1) Mainline Pipe:
    a. ASTM D-3034, Type PSM, Polyvinyl Chloride (PVC) material; inside nominal diameter as per drawings, bell and spigot style rubber ring sealed gasket joint. Markings: Each pipe shall be stamped or marked with it type and class and the manufacturer's name or mark.
        1. Fittings: PVC.
        2. Joints: ASTM F477, elastomeric gaskets.
        3. Markings: Each pipe shall be stamped or marked with its type and class and the manufacturer's name or mark.

(2) Flexible Coupling: Conform to ASTM C-1173. Resilient chemical-resistant elastometric polyvinyl chloride (PVC) coupling, two stainless steel clamps and stainless steel screws and housings. Couplings used shall be sized to match the outside diameter of pipes to be joined.

(3) Tracer Wire: Magnetic detectable conductor, 12 gauge, brightly colored plastic covering. Required for PVC sanitary sewer laterals. Terminate at right-of-way or property line with a tracer wire access box as indicated on the Plans.

C Construction

C.1 Preparation

(1) Block individual and stockpiled pipe lengths to prevent moving.

(2) Do not place pipe or pipe materials on private property or in areas obstructing pedestrian or vehicle traffic. Do not place pipe flat on ground. Cradle to prevent point stress.

(3) Store UV sensitive materials out of direct sunlight.

(4) Verify that field measurements and elevations are as indicated on the drawings.

(5) Verify that excavation base is ready to receive work and that excavations, dimensions, and elevations are as indicated on drawings. Notify engineer of any discrepancies.

(6) Owner will provide line and grade at a convenient offset. Contractor shall be responsible for preservation of line and grade markings if disturbed, shall pay actual cost of replacement. Give three working days prior notice of need for line and grade.

(7) Contractor shall transfer line and grade from offset to sewer by means of laser beam equipment or other approved methods. Inform engineer of proposed methods and equipment prior to construction. Discontinue methods that do not produce accurate control for setting line and grade.

C.2 Installation

(1) Excavate pipe trench according to the Trenching Section in these special provisions.

(2) Excavate to lines and grades shown on Drawings or as per line and grade furnished by Owner.

(3) Dewater excavations to maintain dry conditions and preserve final grades at bottom of excavation.

(4) Provide sheeting and shoring according to the Trenching Section in these special provisions.

(5) Correct over excavation with fine aggregate or washed stone in wet conditions.

(6) Remove large stones or other hard matter capable of damaging pipe or impeding consistent backfilling or compaction.

(7) Protect and support existing sewer lines, utilities and appurtenances.

(8) Maintain profiles of utilities. Coordinate with other utilities to eliminate interference. Notify engineer where crossing conflicts occur.

(9) Place bedding material as per the Backfill Section in these special provisions.

(10) Pipe shall be laid immediately following the preparation of the bedding material.

(11) Install pipe, fittings, and accessories according to ASTM D-2321 and according to manufacturer's directions. Seal joints watertight.

(12) Lay pipe to slope gradients noted on drawings as per line and grade furnished by Owner. Begin at downstream end and progress upstream.

(13) Lay bell and spigot pipe with bells upstream.

(14) Assemble and handle pipe according to manufacturer's instructions except as modified on the Drawings or by engineer.

(15) Keep pipe and fittings clean until work is completed and accepted by engineer. Cap open ends during periods of work stoppage. When work is not in progress, securely close ends of pipe so that no trench water or debris will enter pipe.

(16) Joint materials and methods shall conform to manufacturer's directions. Particular note shall be made to the proper lubrication of the joints and gaskets with an approved vegetable-based lubricant.

(17) When replacing existing sanitary sewer, the contractor is to ensure proper flow of the existing raw sewerage by a means approved of by the engineer. The contractor is not allowed to discharge the raw sewerage onto the ground, into a storm sewer, into a stream, etc. at any time during the construction.

(18) Install trace wire continuous over top of pipe.

(19) Place backfill material around and above the pipe as per the Backfill Section in these special provisions.

(20) Protect pipe and aggregate cover from damage or displacement until backfilling operation is complete. Take care not to damage or displace installed pipe and joints during construction of pipe supports, backfilling, testing, and other operations. Repair or replace pipe that is damaged or displaced from construction operations.

C.3 Field Quality Control

(1) Pressure Test: Test according to the Sewer and Manhole Testing Section in these special provisions.

(2) Infiltration Test: Test according to the Sewer and Manhole Testing Section in these special provisions.

(3) Closed-Circuit Televising of Sanitary Sewer: Test according to the Sewer and Manhole Testing Section in these special provisions. After installation, the contractor shall have the sanitary sewer main televised by a company qualified to televise sanitary sewer mains and approved by the Owner.

(4) When tests indicate work does not meet specified requirements, remove work, replace and retest.

(5) Request inspection prior to and immediately after placing bedding.

D Measurement

The department will measure Sanitary Sewer SDR 35 PVC 8-Inch by the linear foot, measured from center to center of proposed or existing manholes or to end of pipe not terminating in a manhole, and 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.0090.05	Sanitary Sewer SDR 35 PVC 8-Inch	LF

Payment is full compensation for locating the existing sanitary sewer, excavation, removal and disposal of existing sanitary sewer materials, trenching, bedding, maintaining existing sanitary sewer service, pipe and fittings (includes wyes for laterals and tees for risers), and backfilling.

56. Water Main DR 18 PVC 8-Inch, Item SPV.0090.08.

A Description

This special provision describes furnishing and installing water main and all associated fittings as shown on the plans, as further directed by the engineer in the field, and as hereinafter provided.

B Materials

B.1 References

(1) ASTM International:

a. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.
b. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
c. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength.
d. ASTM D1784 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
e. ASTM D2241 - Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series).
f. ASTM D3139 - Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals.
g. ASTM F477 - Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe.

(2) American Water Works Association:

a. AWWA C104 - ANSI Standard for Cement Mortar Lining for Ductile-Iron Pipe and Fittings for Water.
b. AWWA C105 - ANSI Standard for Polyethylene Encasement for Ductile-Iron Pipe Systems.
c. AWWA C110 - ANSI Standard for Ductile-Iron and Gray-Iron Fittings, 3 In. Through 48 In. (76 mm Through 1,219 mm), for Water.
d. AWWA C111 - ANSI Standard for Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
e. AWWA C115 - ANSI Standard for Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges.
f. AWWA C151 - ANSI Standard for Ductile-Iron Pipe, Centrifugally Cast, for Water or Other Liquids.
g. AWWA C153 - ANSI Standard for Ductile-Iron Compact Fittings for Water Service.

h. AWWA C500 - Gate Valves for Water and Sewage Systems.
i. AWWA C600 - Installation of Ductile-Iron Water Mains and Their Appurtenances.
j. AWWA C605 - Water Treatment - Underground Installation of Polyvinyl Chloride PVC Pressure Pipe and Fittings for Water.
k. AWWA C606 - Grooved and Shouldered Joints.
l. AWWA C900 - Polyvinyl Chloride (PVC) Pressure Pipe, and Fabricated Fittings, 4 In. through 12 In. (100 mm Through 300 mm), for Water Distribution.
m. AWWA C905 - Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 In. Through 36 In. (350 mm Through 1,200 mm), for Water Transmission and Distribution.

(3) National Fire Protection Agency
a. NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances.

B.2 Product Submittals

(1) All materials to be domestically made, manufuctured, and produced in the United States of America.

(2) Product Data: Submit data on pipe materials, pipe fittings, accessories, and other pertinent data indicating proposed materials, accessories, details, and construction information.

(3) Manufacturer's Installation Instructions:
a. Indicate special procedures required to install Products specified.

(4) Manufacturer’s Certificate: Certify Products meet or exceed specified requirements.

(5) Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years of documented experience.

(6) Installer: Company specializing in performing work of this section with minimum one year of documented experience.

(7) Project Record Documents:
a. Record actual locations of water mains, fittings, connections, thrust blocks, joint restraints, valves, and elevations.
b. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

B.3 Product Materials

(1) Ductile Iron Pipe: AWWA C151. Bituminous outside coating: AWWA C151. Pipe Mortar Lining: AWWA C104, double thickness.
a. Pipe Class: Class 52. AWWA C151, for nominal thickness, rated water working pressure and maximum depth of cover.
b. Pipe Lengths: Minimum 16 foot long pipe sections.

c. Fittings: Ductile iron, Full Body fittings conforming to AWWA C110 or Compact fittings conforming to AWWA C153. Foundry to b NSF 61 certified. 250 psig working pressure.
    1. Coating and Lining:
        a. Bituminous Coating: AWWA C110.
        b. Cement Mortar Lining: AWWA C104, standard thickness.
d. Joints:
    1. Mechanical and Push-On Joints (slip joint): AWWA C111.
    2. Joints connecting pipes to fittings, valves, and hydrants shall be restrained the required restrained length on each side of the fitting. One of the following shall be used:
        a. Joint restraint gasket on push-on joint pipe and fittings. U.S. Pipe/Field Lok Gasket, American Fast-Grip Gasket, or pre-approved equal.
        b. Use of wedge type restraining glands on mechanical joint pipe and fittings: Tyler Union TUFGrip Series 1000, or pre-approved equal.

(2) Polyvinyl Chloride (PVC) Pipe: AWWA C900, Class 150, DR 18, Ductile iron outside diameter.
a. Fittings: Ductile iron, Full Body fittings conforming to AWWA C110 or Compact fittings conforming to AWWA C153. 250 psig working pressure.
    1. Coating and Lining:
        a. Bituminous Coating: AWWA C110.
        b. Cement Mortar Lining: AWWA C104, standard thickness.
b. Joints: ASTM D-3139 PVC flexible elastomeric seals. Solvent-cement couplings are not permitted.
    1. Joints connecting pipes to fittings, valves, and hydrants shall be restrained the required restrained length on each side of the fitting. One of the following shall be used -
        a. Joint restraint gasket on push-on joint pipe and fittings. U.S. Pipe/Field Lok Gasket, American Fast-Grip Gasket, or approved equal.
        b. Use of wedge type restraining glands on mechanical joint pipe and fittings: Tyler Union TUFGRIP Series 2000, or approved equal.
c. Couplings/Sleeves:
    1. All couplings and sleeves shall be solid sleeves meeting the requirements of B.3(1)c.

(3) Underground Pipe Markers:
Tracer Wire: Magnetic detectable conductor, 12 gauge, brightly colored plastic covering. Required for PVC water main pipe installations. Terminate at fire hydrants with a tracer wire access box, Valveco TWAB or pre-approved equal, as indicated on the Plans.

B.3.1 Bedding and Cover Material

Bedding and Backfill Material as specified in the Backfill Section in these special provisions

B.3.2 Accessories

(1) Concrete for Thrust Restraints: Conform to standard spec 501. Solid concrete blocks may be substituted with permission from engineer.

(2) Steel rods, bolt, lugs and brackets: ASTM A36/A36M or ASTM A307 carbon steel.

(3) Protective Coating: Bituminous coating.

(4) Polystyrene Insulation Board: Provide polystyrene insulation board that conforms to the requirements of extruded insulation board, AASHTO designation M230, except as hereinafter revised. Delete flammability requirement.

a. Install as directed by engineer.

C Construction

C.1 Preparation

(1) Block individual and stockpiled pipe lengths to prevent moving.

(2) Do not place pipe or pipe materials on private property or in areas obstructing pedestrian or vehicle traffic. Do not place pipe flat on ground. Cradle to prevent point stress.

(3) Store polyethylene materials out of direct sunlight.

(4) Verify that field measurements and elevations are as indicated on the drawings.

(5) Verify that excavation base is ready to receive work and that excavations, dimensions, and elevations are as indicated on drawings. Notify engineer of any discrepancies.

(6) Cut pipe ends square, ream pipe and tube ends to full pipe diameter, remove burrs. Use only equipment specifically designed for pipe cutting. The use of chisels or hand saws will not be permitted. Grind edges smooth with beveled end for push-on connections.

(7) Remove scale and dirt on inside and outside before assembly.

(8) Prepare pipe connections to equipment with flanges or unions.

C.2 Installation – Pipe and Fittings

(1) Excavate pipe trench according to the Trenching Section in these special provisions. Hand trim excavation for accurate placement of pipe to elevations indicated on Drawings.

(2) Dewater excavations to maintain dry conditions and preserve final grades at bottom of excavation.

(3) Provide sheeting and shoring according to the Trenching Section in these special provisions.

(5) Correct over excavation with fine aggregate or washed stone in wet conditions.

(6) Remove large stones or other hard matter capable of damaging pipe or impeding consistent backfilling or compaction.

(7) Protect and support existing water lines, utilities and appurtenances.

(8) Maintain profiles of utilities. Coordinate with other utilities to eliminate interference. Notify engineer where crossing conflicts occur.

(9) Place bedding material as per the Backfill Section in these special provisions.

(10) Pipe shall be laid immediately following the preparation of the bedding material.

(11) Install pipe according to AWWA C600 and AWWA C605.

(12) Handle and assemble pipe according to manufacturer's instructions and as indicated on Drawings.

(13) Maintain minimum 8 feet horizontal separation of water main from sewer piping according to NR 811.67.

(14) Install pipe to indicated elevation to within tolerance of 1 inch.

(15) Install ductile iron piping and fittings according to AWWA C600.

(16) Route pipe in straight line. Relay pipe that is out of alignment or grade.

(17) Install pipe with no high points. If unforseen field conditions arise, which necessitate high points, install air release valves as directed by engineer.

(18) Install pipe to have bearing along entire length of pipe. Excavate bell holes to permit proper joint installation. Do not lay pipe in wet or frozen trench.

(19) Prevent foreign material from entering pipe during placement.

(20) Install pipe to allow for expansion and contraction without stressing pipe or joints.

(21) Close pipe openings with watertight plugs during work stoppages.

(22) Install access fittings to permit disinfection of water system performed under the Disinfection of Water Distribution System Section in these special provisions.

(23) Place backfill material around and above the pipe as per the Backfill Section in these special provisions.

(24) Protect pipe and aggregate cover from damage or displacement until backfilling operation is complete. Take care not to damage or displace installed pipe and joints during construction of pipe supports, backfilling, testing, and other operations. Repair or replace pipe that is damaged or displaced from construction operations.

C.3 Installation – Thrust Restraints

(1) Provide valves, tees, bends, caps, and plugs with concrete thrust blocks. Pour concrete thrust blocks against undisturbed earth. Locate thrust blocks at each elbow or change of pipe direction to resist resultant force and so pipe and fitting joints will be accessible for repair.

(2) Install tie rods, clamps, set screw retainer glands, or restrained joints at all fittings, valves, and hydrants.

(3) Install thrust blocks, tie rods, and joint restraint at dead ends of water main.

C.4 Field Quality Control

(1) Disinfection: Flush and disinfect potable water distribution system according to the Disinfection of Water Distribution System Section in these special provisions.

(2) Pressure Test: Perform pressure test on potable water distribution system according to AWWA C600. Pressure test system to 150 psi. Repair leaks and re-test.

a. After completion of pipeline installation, including backfill, but prior to final connection to existing system, conduct, in presence of engineer, concurrent hydrostatic pressure and leakage tests according to AWWA C600.
b. Provide equipment required to perform leakage and hydrostatic pressure tests.
c. Test Pressure: Not less than 150 psi or 50 psi in excess of maximum static pressure, whichever is greater.
d. Conduct hydrostatic test for at least two-hour duration.
e. No pipeline installation will be approved when pressure varies by more than 5 psi at completion of hydrostatic pressure test.
f. Before applying test pressure, completely expel air from section of piping under test. Provide corporation cocks so air can be expelled as pipeline is filled with water. After air has been expelled, close corporation cocks and apply test pressure. At conclusion of tests, remove corporation cocks and plug resulting piping openings.
g. Slowly bring piping to test pressure and allow system to stabilize prior to conducting leakage test. Do not open or close valves at differential pressures above rated pressure.
h. Examine exposed piping, fittings, valves, hydrants, and joints carefully during hydrostatic pressure test. Repair or replace damage or defective pipe, fittings, valves, hydrants, or joints discovered, following pressure test.

i. No pipeline installation will be approved when leakage is greater than that determined by the following formula:

$$L = \frac{SD\sqrt{P}}{133{,}200}$$

L = allowable, in gallons per hour
S = length of pipe tested, in inches
D = nominal diameter of pipe, in inches
p = average test pressure during leakage test, in pounds per square inch (gauge)

j. When leakage exceeds specified acceptable rate, locate source and make repairs. Repeat test until specified leakage requirements are met.

(3) When tests indicate Work does not meet specified requirements, remove Work, replace and retest.

(4) Perform a continuity test to all of the installed tracer wire. If it is found that a signal cannot be obtained throughout, contractor to repair as necessary. Continuity test should be completed prior to street excavation.

D Measurement

The department will measure Water Main DR 18 PVC (Size) by the linear foot, measured from center to center of proposed or existing tees, crosses, valves, or connection fittings, and 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.0090.08	Water Main DR 18 PVC 8-Inch	LF

Payment is full compensation for excavation, abandonment and draining of existing water main, trenching, bedding, maintaining existing water system service, pipe and fittings, concrete thrust blocks, joint restraints, tracer wire, and backfilling.

57. Casing Pipe Reinforced Concrete Class III 18-Inch, Item SPV.0090.09; 30-Inch, Item SPV.0090.10.

A Description

This special provision describes installing proposed casing pipes using reinforced concrete storm sewer pipe and casing spacers according to the pertinent requirements of standard spec 608, as shown on the plans, as directed by the engineer, and as hereinafter provided.

B Materials

B.1 Shop Drawings/Product Submittals

(1) Product Data: Submit tunnel liner design calculations and manufacturer's data on tunnel liner plate showing sizes, shapes, methods of attachment and connection details, and details of grout holes, signed and sealed by Professional engineer.

(2) Shop Drawings:
   a. Submit Shop Drawings on carrier pipe support systems.
   b. Submit plan for dewatering operation to the engineer.
   c. Submit pipe and casing manufacturer's recommendation for casing spacer placement.

(3) Manufacturer's Installation Instructions:
   a. Indicate special procedures required to install Products specified.

(4) Installation Plan: Submit description of proposed construction plan, dewatering plan, and plan to establish and maintain vertical and horizontal alignment

(5) Submit certificate of compliance indicating the materials incorporated into the Work comply with the Contract Documents.

(6) Submit emergency response procedures to handle situations when conduit is compromised and jeopardizes integrity of installation or safety.

(7) Project Record Documents:
   a. Record location of pipe runs, connections, manholes, cleanouts, and invert elevations.
   b. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.
   c. Provide the Post-Installation Televised Report and Video.

B.2 Product Materials

(1) Reinforced concrete pipe: Reinforced concrete pipe according to the pertinent requirements of sections 608 of the standard specifications, as shown in the plans, and as hereinafter provided.
   a. Pipe: ASTM C76, ASTM C361, Class III with mesh reinforcement.
   b. Joints: ASTM C443, butt jointed incorporating steel or fiberglass reinforced pipe collar bands and elastomeric sealing ring.

(2) Casing Spacers:
   a. Casing spacers shall be as manufactured by Cascade Waterworks Manufacturing Company, Model CCS, Powerseal Model 4810, or pre-approved equal. Casing spacer shall be a two-piece shell per carrier pipe with T-304, 14 gauge stainless steel band, 5/16 inch stainless steel flange bolts, heavy duty PVC liner, polyethylene or phenolic skids.
   b. Casing spacers for pipe up to 6 inches in diameter shall be PVC, HDPE, or stainless steel with HDPE, nylon, or PVC runners. Larger sizes shall be stainless steel with HDPE, nylon, or PVC runners.

c. Joint Restraint Casing Spacers shall be manufactured by Cascade Water Works Manufacturing Company, Model CCS-JRO or pre-approved equal. The Joint Restraint Casing Spacers shall be all stainless steel and shall be placed at each pipe joint of the carrier pipe within the casing pipe.
d. Use of wooden shims to support pipe shall not be permitted.

C Construction

C.1 Preparation

(1) Protect piping system from entry of foreign materials and water by temporary covers, completing sections of work, and insolating parts of completed system.

(2) Do not place pipe or pipe materials on private property or in areas obstructing pedestrian or vehicle traffic. Do not place pipe flat on ground. Cradle to prevent point stress.

(3) Store field joint materials indoors in dry area in original shipping containers. Maintain storage temperature of 60 to 85 degrees F.

(4) Verify that field measurements and elevations are as indicated on the drawings.

(5) Verify that excavation base is ready to receive work and that excavations, dimensions, and elevations are as indicated on drawings. Notify engineer of any discrepancies.

(6) Owner will provide line and grade at a convenient offset. Contractor shall be responsible for preservation of line and grade markings if disturbed, shall pay actual cost of replacement. Give three working days prior notice of need for line and grade.

(7) Contractor shall transfer line and grade from offset to sewer by means of laser beam equipment or other approved methods. Inform engineer of proposed methods and equipment prior to construction. Discontinue methods that do not produce accurate control for setting line and grade.

C.2 Installation

(1) Excavate pipe trench according to the Trenching Section in these special provisions.

(2) Excavate to lines and grades shown on Drawings or as per line and grade furnished by Owner.

(3) Dewater excavations to maintain dry conditions and preserve final grades at bottom of excavation.

(4) Provide sheeting and shoring according to the Trenching Section in these special provisions.

(5) Correct over excavation with fine aggregate or washed stone in wet conditions.

(6) Remove large stones or other hard matter capable of damaging pipe or impeding consistent backfilling or compaction.

(7) Protect and support existing sewer lines, utilities and appurtenances.

(8) Maintain profiles of utilities. Coordinate with other utilities to eliminate interference. Notify engineer where crossing conflicts occur.

(9) Place bedding material as per the Backfill Section in these special provisions.

(10) Pipe shall be laid immediately following the preparation of the bedding material.

(11) Install casing pipe to vertical and horizontal alignment on Drawings within plus or minus 3 inches prior to installation of carrier pipe.

(12) Place backfill material around and above the pipe as per the Backfill Section in these special provisions.

(13) Casing spacer shall be used for water, sanitary, or storm sewer installation. Spacers shall be installed per pipe and spacer manufacturer's instructions.

C.3 Carrier Pipe Installation

(1) Clean, inspect, and handle pipe according to the Contract Documents.

(2) Place carrier pipe according to the Contract Documents. Exercise care to prevent damage to pipe joints when carrier pipe is placed in casing.

(3) Support pipeline within casing so no external loads are transmitted to carrier pipe.

(4) Install pipe bells with minimum ½ inch clearance to casing.

(5) Grout ends of casing to seal

C.3 Field Quality Control

(1) Closed-Circuit Televising of Casing Pipe: Test according to the Sewer and Manhole Testing Section in these special provisions. After installation, the contractor shall have the Casing Pipe televised by a company qualified to televise sanitary sewer mains and approved by the Owner.

(2) When tests indicate work does not meet specified requirements, remove work, replace and retest.

(3) Request inspection prior to and immediately after placing bedding.

D Measurement

The department will measure Casing Pipe Reinforced Concrete Class III (size) per linear foot of casing, 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.0090.09	Casing Pipe Reinforced Concrete Class III 18-Inch	LF
SPV.0090.10	Casing Pipe Reinforced Concrete Class III 30-Inch	LF

Payment is full compensation for excavation, trenching, bedding, casing pipe and fittings, casing spacers, joint restraint spacers, end seals, tests, and backfilling.

58. Post Construction Televising – Sanitary Sewer, Item SPV.0090.11; Post Construction Televising – Casing Pipe, Item SPV.0090.12.

A Description

This special provision describes the testing procedures for testing sanitary manholes and gravity sanitary sewer systems, once installed, and the post construction televising, as hereinafter provided.

B Materials

B.1 References

(1) ASTM International:

a. ASTM C-1244 - Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.
b. ASTM D-2122 - Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings.

B.2 Product Submittals

(1) Submit the following prior to start of testing:

a. Testing procedures.
b. List of test equipment.
c. Testing sequence schedule.
d. Provisions for disposal of flushing and test water.
e. Certification of test gauge calibration.
f. Deflection mandrel drawings and calculation.

(2) Test Reports: Indicate results of manhole and piping tests.

(3) Televising Reports: Provide the Post-Installation Televised Sewer Report and Corresponding Video.

B.3 Product Materials

B.3.1 Vacuum Testing Equipment:

a. Vacuum pump.
b. Vacuum line.
c. Vacuum tester base with compression band seal and outlet port.
d. Shut-off valve.
e. Stop watch.
f. Plugs.
g. Vacuum gauge, calibrated to 0.1 inch Hg

B.3.2 Exfiltration Test Equipment:
a. Plugs.
b. Pump.
c. Measuring device.

B.3.3 Air Test Equipment:
a. Air compressor.
b. Air supply line.
c. Shut-off valves.
d. Pressure regulator.
e. Pressure relief valve.
f. Stop watch.
g. Plugs.
h. Pressure gauge, calibrated to 0.1 psi.

B.3.4 Infiltration Test Equipment:
a. Weirs.

B.3.5 Hydrostatic Test Equipment:
a. Hydro pump.
b. Pressure hose.
c. Water meter.
d. Test connections.
e. Pressure relief valve.
f. Pressure gauge, calibrated to 0.1 psi.

B.3.6 Deflection Test Equipment:
a. Go, No-Go mandrels.
b. Pull/retrieval ropes.

C Construction
C.1 Preparation
(1) Verify manholes and piping are ready for testing.

(2) Verify trenches are backfilled.

(3) Verify pressure piping concrete reaction support blocking or mechanical restraint system is installed.

(4) Lamping:

a. Lamp gravity piping after flushing and cleaning.

b. Perform laming operation by shining light at one end of each pipe section between manholes; observe light at other end; reject pipe not installed with uniform line and grade; remove and reinstall rejected pipe sections; re-clean and lamp until pipe section achieves uniform line and grade.

(5) Plug outlets, wye branches and laterals; brace plugs to resist test pressures.

C.2 Post Constriction Televising of Sanitary Sewer

(1) Sewer Inspection

1. Contractor will perform a closed circuit video inspection of the sewer using current state-of-the-art technology and trained employees.
2. CCTV camera will be high-resolution color with adjustable iris focus.
3. CCTV camera shall be capable of radial view for inspection of the top, bottom, and sides of pipe and for looking up lateral connections. It shall have pan and tilt capabilities that allow up close and right-angled inspections of defects and other significant observations.
4. The CCTV camera shall be mounted on adjustable skids, or self propelled, to keep it in the center of the pie.
5. A tractor drive will be available to transport the video camera for inspecting dead end sewers and other situations where manhole access at both ends of the sewer may not be available.
6. Lighting on video camera will be suitable to allow proper illumination and a clear video image of the entire periphery of the pipe and be capable of being dimmed or brightened remotely from the control panel
7. The camera will be operative in 100% humidity conditions
8. The camera, television monitor, and other components of the video system will produce a high quality video image
9. Footage distance measured by video system will be accurate within 1% and will be used to determine footages for reporting. The centerline between manholes will be the reference points used to determine footage measurements
10. Video inspection will progress at a uniform rate to not exceed a traverse rate of 30 feet per minute so that sewer line can later be thoroughly examined by the Client while viewing videotapes
11. Manual winches, power winches, TV cable, and powered rewinds (or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions) shall be used to move the camera through the sewer line
12. If, during the inspection operation the television camera will not pass through the entire sewer section, the contractor shall re-setup his equipment in a manner so that the inspection can be performed from the opposite manhole. If, again, the camera fails to pass through the entire sewer section, the inspection shall be considered complete and no additional inspection work will be required. All costs for re-setup due to an obstruction in the sewer that will not allow the camera to pass shall be considered incidental.
13. If the camera becomes submerged due to a sag in the pipe, a high velocity jet will be utilized to pull water away from the camera lens.

(2) Sewer Inspection Reporting

1. The purpose of recording shall be to supply a visual and audio record of the condition of the lines that may be replayed both daily and at future presentations

2. The contractor will make a color recording on CD or DVD ROM of all sewers inspected and will also provide a paper report generated by the video inspection software. The written report will be a mirror image of all observations and information recorded. A computer, integrated with the video inspection equipment, will be used to eliminate errors from separate processes.
3. Video recording playback shall be at the same speed that it was recorded.
4. Upon completion of the work, all video recorded during the television inspection shall become the property of the Owner. Cost of video recordings shall be included in the unit price bid.
5. A complete recording shall be made of each line televised. A voice recording on video recordings shall make brief and informative comments on the sewer conditions.
6. Video recordings shall include the following information:
    2. Visual (minimum required)
        a. Camera shall stop and rotate up to view each service connection
        b. Camera shall stop at unusual instances that are viewed while in progress and provide a more detailed and longer view of that specific instance (i.e. bad joint, offset joint, crack, sediment in line, settlement, etc.)
    3. Visual (on screen in corner)
        a. Report number
        b. Date of television inspection
        c. Sewer section and number
        d. Current distance along reach (tape counter footage)
        e. Printed labels on recording containers and recording material with location information, date, format information, and other descriptive information.
    3. Audio
        a. Date and time of television inspection, operator name, name of overlying or adjacent street, and manhole numbers
        b. Verbal confirmation of sewer section and television direction in relation to direction of flow
        c. Verbal description of pipe size, type, and pipe joint length
        d. Verbal description and location of each service connection and pipe defect
        f. Type of weather during inspection
7. Television inspection logs shall include, but are not limited to, the following:
    1. Date, time, city/village, street, basin, sewer section, reference manhole number, name of operator, inspector, and weather conditions
    2. Pipe diameter, pipe material, section length, depth of pipe, length between joints, and corresponding videotape identification
    3. Location of each point of leakage
    4. Location of service connection
    5. Location of any damaged sections, nature of damage, severity of damage, and location with respect to pipe axis
    6. Deflection in alignment of grade of pipe

8. All inspection reports and videos will be prepared and delivered to the Client no later than the last date of the performance period, unless a later date for deliverables is approved of by the Client
9. Acceptance of televising shall be made upon the successful completion of the project and shall be to the satisfaction of the Owner. If the video tapes show the inspection to be unsatisfactory, the contractor shall be required to re-inspect the sewer line.

C.3 Field Quality Control

(1) Testing Gravity Sewer Piping:

A. Low-pressure Air Test:

1. Test each section of gravity sewer piping between manholes.
2. Introduce air pressure slowly to approximately 4 psig.
    a. Determine ground water elevation above spring line of pipe for every foot of ground water above spring line of pipe, increase starting air test pressure by 0.43 psig; do not increase pressure above 10 psig.
3. Allow pressure to stabilize for at least five minutes. Adjust pressure to 3.5 psig or increased test pressure as determined above when ground water is present. Start test.
4. Test:
    a. Determine test duration for sewer section with single pipe size from the following table. Do not make allowance for laterals.

AIR TEST TABLE

Minimum Test Time for Various Pipe Sizes

Nominal Pipe Size, Inches	T(time), min/ 100 feet
3	0.2
4	0.3
6	0.7
8	1.2
10	1.5
12	1.8
15	2.1
18	2.4
21	3.0
24	3.6
27	4.2
30	4.8
33	5.4
36	6.0

b. Record drop in pressure during test period; when air pressure has dropped more than 1.0 psig during test period, piping has failed; when 1.0 psig air pressure drop has not occurred during test period, discontinue test and piping is accepted.
c. When piping fails, determine source of air leakage, make corrections and retest; test section in incremental stages until leaks are isolated; after leaks are repaired, retest entire section between manholes.

B. Test pipes larger than 36 inches diameter with exfiltration test not exceeding 100 gallons for each inch of pipe diameter for each mile per day for each section under test. Perform test with minimum positive head of 2 feet.

C. Infiltration Test:

5. Use only when gravity piping is submerged in ground water minimum of 4 feet above crown of pipe for entire length being tested.
6. Maximum Allowable Infiltration: 100 gallons per inch of pipe diameter for each mile per day for section under test, include allowances for leakage from manholes. Perform test with minimum positive head of 2 feet.

(2) Testing Pressure Sewer Piping:

A. Hydrostatic Leakage Test:

1. Hydrostatically test each portion of pressure piping, including valved section, at 1.5 times working pressure of piping based on elevation of lowest point in piping corrected to elevation of test gauge.
2. Fill section to be tested with water slowly, expel air from piping at high points. Install corporation cocks at high points. Close air vents and corporation cocks after air is expelled and raise pressure to specified test pressure.
3. Observe joints, fittings and valves under test. Remove and renew cracked pipe, joints, fittings, and valves showing visible leakage. Retest.
4. Correct visible deficiencies and continue testing at same test pressure for additional 2 hours to determine leakage rate. Maintain pressure within plus or minus 5.0 psig of test pressure. Leakage is defined as quantity of water supplied to piping necessary to maintain test pressure during period of test.
5. Compute maximum allowable leakage by the following formula:

$$L = \frac{SD\sqrt{P}}{C}$$

L = allowable, in gallons per hour
S = length of pipe tested, in feet
D = nominal diameter of pipe, in inches
p = average test pressure during leakage test, in psig
C = 133,200

When pipe under test contains sections of various diameters, calculate allowable leakage from sum of computed leakage for each size.

6. When test of pipe indicates leakage greater than allowed, locate source of leakage, make corrections and retest until leakage is within allowable limits. Correct visible leaks regardless of quantity of leakage.

(3) Deflection Testing of Plastic Sewer Pipe:

A. Perform vertical ring deflection testing on PVC and ABS sewer piping, after backfilling has been in place for at least 30 days but not longer than 12 months.

B. Allowable maximum deflection for installed plastic sewer pipe limited to 5 percent of original vertical internal diameter.

C. Perform deflection testing using properly sized rigid ball or 'Go, No-Go' mandrel.

D. Furnish rigid ball or mandrel with diameter not less than 95 percent of base or average inside diameter of pipe as determined by ASTM standard to which pipe is manufactured. Measure pipe in compliance with ASTM D-2122.

E. Perform test without mechanical pulling devices.

F. Locate, excavate, replace and retest pipe exceeding allowable deflection.

(4) Testing Manholes:

A. General: Test using air whenever possible prior to backfilling to assist in locating leaks. Make joint repairs on both outside and inside of joint to ensure permanent seal. Test manholes with manhole frame set in place.

B. Vacuum test according to ASTM C-1244 and as follows:

1. Plug pipe openings; securely brace plugs and pipe.
2. Inflate compression band to effect seal between vacuum base and structure; connect vacuum pump to outlet port with valve open; draw vacuum to 10 inches of Hg; close valve; start test.
3. Test:
    a. Determine test duration for manhole from the following table:

VACUUM TEST TABLE

Manhole Diameter	Test Period
4 feet	60 seconds
5 feet	75 seconds
6 feet	90 seconds

    b. Record vacuum drop during test period; when vacuum drop is greater than 1 inch of Hg during test period, repair and retest manhole; when vacuum drop of 1 inch of Hg does not occur during test period, discontinue test and accept manhole.
    c. When vacuum test fails to meet 1 inch Hg drop in specified time after repair, repair and retest manhole.

C. Exfiltration Test:

1. Plug pipes in manhole; remove water in manhole; observe plugs over period of not less than 2 hours to ensure there is no leakage into manhole.
2. Determine ground water level outside manhole.
3. Fill manhole with water to within 4 inches of top of cover frame. Prior to test, allow manhole to soak from minimum of 4 hours to maximum of 72 hours; after soak period, adjust water level inside manhole to within 4 inches of top of cover frame.
4. Measure water level from top of manhole frame; at end of 4 hour test period, again measure water level from top of manhole frame; compute drop in water level during test period.
5. Manhole exfiltration test is considered satisfactory when drop in water level is less than values listed in table below:

Manhole Depth (feet)	Allowable Leakage per Manhole Diameter and Depth		
	4 feet	5 feet	6 feet
4	0.11	0.14	0.17
6	0.17	0.21	0.26
8	0.23	0.29	0.35
10	0.28	0.35	0.42
12	0.34	0.43	0.51
14	0.40	0.50	0.60
16	0.45	0.56	0.68
18	0.51	0.64	0.77
20	0.57	0.71	0.86
22	0.62	0.78	0.93
24	0.68	0.85	1.02
26	0.74	0.93	1.11
28	0.79	0.99	1.19
31	0.85	1.06	1.28

(5) When unsatisfactory test results are achieved, repair manhole and retest until result meets criteria; repair visible leaks regardless of quantity of leakage.

D Measurement

The department will measure Post Construction Televising - Sanitary Sewer and Post Construction Televising – Casing Pipe by linear foot, acceptably completed, measured from center to center of proposed or existing manholes or to end of pipe not terminating in a manhole.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.11	Post Construction Televising – Sanitary Sewer	LF
SPV.0090.12	Post Construction Televising – Casing Pipe	LF

Payment is full compensation for equipment for sanitary sewer cleaning (if necessary), inspection, inspection reporting, and televising.

Testing of manholes, sanitary sewer systems, and storm sewer systems is incidental to the manhole, sanitary sewer, or storm sewer installation.

59. Crawford County Storage Shed, Item SPV.0105.01.

A Description

This special provision describes providing and erecting a nominal 80'-0" wide by 125'-0" long high-arch gambrel style Salt Storage Facility with concrete foundations, concrete walls, gambrel style wood trusses, fans and electrical systems as shown in the plans and hereinafter provided.

The Salt Storage Facility shall be self-supporting with no internal supports inside to hamper loading and unloading of material complete with doorways on the building.

The Salt Storage Facility shall be constructed with two spaces for salt and sand storage. The building shall be a maximum of 45'-0" feet high and shall include a built-in fan dormer for installation of ventilation exhaust fan(s). See the HVAC section and drawings for fan designation.

The Salt Storage Facility will be located on an existing site for the Crawford County Highway Department at 420 North Ohio Street. The site includes highway shop buildings. The new storage building shall be located as shown on the plans. The Salt Storage Facility contractor shall coordinate with the owner for site access and usage.

Crawford County Highway Department shall prepare the base course and rough grading in the area where the storage building will be located and shall be responsible for excavation for footings and foundations and backfilling.

Asphaltic surface flooring is not in contract. Asphaltic surface shall be provided by others after construction of the storage building is complete.

The owner reserves the right to consider bids for structures varying in minor respects from any specific requirements specified herein, but judged to meet the intent of this specification.

Definitions:

- The term "owner" means Wisconsin Department of Transportation.
- The term "contractor" means the lowest responsible bidder awarded the Contract for the work.
- The term "floor" means the exposed portion of the asphaltic surface of the building site that lies within the inner building perimeter.
- The term "salt" means sodium chloride used to melt snow and ice from roadway surfaces.

A.1 Quality Assurance

Materials:

Contractor shall provide materials that have a proven performance record, and shall be responsible for all products, components, accessories, and methods used in constructing the building.

The minimum printed code standard requirements of the following organizations for material quality, fabrication, and installation procedures shall be met or exceeded, for applicable methods employed in the building design:

- American Institute of Steel Construction (AISC)
- American Concrete Institute (ACI)
- American Institute of Timber Construction (AITC)
- American Iron and Steel Institute (AISI)
- American Plywood Association (APA)
- American Softwood Lumber Standard: U. S. Department of Commerce PS-20

A.2 Submittals

Furnish the following information as proof of conformity to design and performance criteria requirements of this specification. The information (for both submittal phases, below) shall be stamped with the registration seal of an architect or a professional engineer, licensed in this state and bearing the authorized facsimile of the signature of such architect or professional engineer.

In the case of prefabricated buildings and proprietary design, submit advertising literature depicting the proposed building.

Provide all pertinent shop drawings, structural design information and submittals to the engineer prior to ordering and installing any materials required for the work. The engineer must review all materials, design information and submittals prior to the contractor ordering and installing any materials required for the work. The required shop drawings include, but are not limited to:

- Letter of Design Certification, signed and sealed by a qualified professional engineer including the following:
- Name and location of the Project.
- Order number.
- Name of manufacturer.
- Name of contractor.
- Building dimensions including width, length, and roof slope.
- Governing building code and year of edition.
- Design loads (dead load, roof live load, collateral loads, roof snow load, deflection, wind loads/speeds and exposure, seismic design category or effective peak velocity-related acceleration/peak acceleration and auxiliary loads.
- Load combinations (indicate that loads were applied acting simultaneously with concentrated loads, according to governing building code).
- Building-use category (indicate category of building use and its effect on load importance factors).
- Delegated-Design Submittal: For storage building systems indicated to comply with performance requirements and design criteria, including analysis data and calculations signed and sealed by the qualified professional engineer responsible for their preparation.
- Product Data: For each type of storage building system component.
- Shop Drawings: For salt storage building system components (include plans, elevations, sections, details, and attachments to other work) including:
- Concrete footings and foundations
- Epoxy coated steel reinforcement
- Metal plates and fasteners
- Wood products
- Standing seam metal roofing system
- Wall systems
- Flashings
- Barrier walls
- Doors and frames
- Electrical and lighting systems
- Site work
- Accessories

A.3 Roofing Warranty

The necessary warranty bond for the warranted roof items will be in effect for the entire three-year warranty period beginning when the Salt Storage building is completed and opened. The bonding company must have an A.M. Best rating of "A-"or better and the contractor will provide proof of a five-year bond commitment before execution of the contract.

The warranty bond will be $12,000.00 for the warranted roof. The bond will insure the proper and prompt completion of required warranty work for the duration of the warranty period, including payments for furnishing all labor, equipment and materials used according to this specification.

The contract bond remains in effect for one year beyond the completion of the project. For the remaining two-year warranty period, provide documentation that the warranty bond will remain in effect for the portion of the warranty period after expiration of the contract bond.

If a subcontractor places the warranted roof, the subcontractor may provide the warranty bond for the remaining two-year warranty period after expiration of the contract bond. If the subcontractor does provide the bond, it shall be a dual obligee bond, naming the contractor and the Wisconsin Department of Transportation as obligees. The subcontractor shall provide documentation that the warranty bond will remain in effect for the portion of the warranty period after expiration of the contract bond.

Failure of the contractor, subcontractor or its surety to issue or renew the warranty bond will be considered a default and will result in forfeiture of the face amount of the bond to the department.

At the end of the warranty period, the contractor will be relieved of the responsibility to perform further warranty work, provided all previous warranty work has been completed. Maintain insurance, in the course of performing warranty work, as specified in standard spec 107.26 throughout the three-year warranty period.

A.4 Code Compliance

Build the structure in conformance with all applicable codes. The contractor is responsible to submit the design for any required review prior to commencement of construction and to execute the construction of the building so as to achieve compliance.

A.5 Installation and Erection

Provide all required footings, foundations, and/or other required substructures or supports at the required elevations on properly prepared subgrade, as required for the erection of the complete storage building.

- Foundations shall be of size and depth as shown on plans to resist frost action.
- Bid prices shall include the cost of foundations as shown in plans to support the proposed structure.
- Provide the salt storage building and required appurtenances, erected on abovementioned foundations, conforming to the performance requirements of these specifications complete and prepared for the storage of salt.

B Materials

Furnish a nominal 80’-0” x 125’-0” Salt Storage Facility with concrete foundations, concrete walls, wood trusses and metal roofing system. The design shall be a high-arch gambrel style storage building.

B.1 Plot Plan
Furnish to all subcontractors a plot plan showing the proposed location of the Salt Storage Facility, including distances from lot lines and encumbrances on the site such as other buildings/structures and lay-down areas utilized by the main site contractor and/or main building contractor. The Salt Storage Facility contractor shall coordinate with the Owners Representative for staging areas. All bidders are invited to inspect the site prior to bidding.

B.2 Earthwork and Foundation Excavation
Others shall excavate and backfill to original grade for the foundation footings.

B.3 Asphalt Flooring and Paving
Asphaltic surface will be the responsibility of others and is not part of the storage building contract.

B.4 Building Products
The following minimum required standards shall be met for the products listed:

Metal Plates and Fasteners:
Metal plates and fasteners used in the building (truss bearing plates, shear plates, truss gusset plates, joist hangers, nails, bolts, nuts, washers, screws, etc.) which are in direct contact with salt, or which are exposed to an atmosphere containing salt, shall be designed to resist corrosion due to such contact or exposure.

- Truss bearing plates, bolts, and washers: to be stainless steel.
- Truss gusset plates: to be galvanized steel, epoxy coated.
- Joist hangers: to be triple-zinc coated.
- Nails applied to CCA or CDX lumber shall be galvanized.
- All metal connector plates and bearing plates shall be protected from corrosion by:
    - SSPC-Paint 16, Coat-Tar Epoxy Polyamide Black or dark Red Paint, or
    - SSPC-Paint 27 & SSPC-Paint 12, Basic Zinc Chromate-Vinyl Butyral Wash Primer and cold applied Asphaltic Mastic (Extra Thick Film) Paint.

Wood Products:
All above-ground lumber exposed to weather, or directly in contact with salt, shall be preservative treated with water-borne preservatives for above-ground use, complying with AWPA-LP-2 (CCA .40). Provide exterior grade plywood in thicknesses that comply with loading and code requirements and are compatible with proposed roofing system.

Standing Seam Metal Roofing System:
Standing Seam Metal Panels: Narrow batten cup, Kynar 500 coating, 16" wide striated, 24 gage galvaline substrate, Class A fire rating, UL580 Class 90 uplift test, ASTM E1646 water infiltration test, UL2218-Class 4 impact resistance.

Manufacturers:

- McElroy Metal
- Pac-Clad
- ATAS

Felts: ASTM 226 or ASTM 4869, Type I, asphalt-saturated organic felts.

Sheet Metal Flashing and Trim:

- Sheet Metal: Aluminum.
- Fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual."
- Drip Edge: Formed sheet metal with at least a 2-inch roof deck flange and a 1-1/2-inch fascia flange with a 3/8-inch drip at lower edge.

Gutter and Downspout:
Pre-Finished Galvanized Steel Sheet: ASTM A755/A755M; structural steel sheet, G90 zinc coating; 0.019 inch thick core steel, shop pre-coated with baked polyester top coat; color as selected from manufacturer's standard. Washcoat: Finish concealed side of metal sheets with washcoat compatible with finish system, as recommended by finish system manufacturer. Slope gutters 1/8 inch per foot minimum. Seal joints watertight.

Gutter Size: 6" vertical x 8" horizontal
Downspout size: 6" square open faced
Gutter and Downspout Anchorage Devices: Type recommended by fabricator.

Gutter Accessories:
Profiled to suit gutters and downspouts. Form components to shape indicated on Drawings, accurate in size, square, and free from distortion or defects. Form pieces in longest practical lengths. Form material with flat lock seams, except where otherwise indicated. At moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.

Silane Water Repellent shall be a low VOC, UV stable, vapor permeable, silane penetrating sealer and water repellent.

The material shall be a concentrated, solvent free Silane. The material shall be a concentrated compound based on triethoxy (2,4,4-trimethylpentyl) Silane, ready to be used. The material shall not be diluted on site either by water or solvent. The material shall not contain any silicates, fluor silicates, or stearates.

Sikagard® 706 Thixo, Sika Corporation, or approved equal

Provide a written warranty from the manufacturer against defects of materials for a period of one year, beginning with date of substantial completion of the project.

Typical Properties:
Aspect: Paste/Cream
Colour: White (Transparent after application and drying)
Solids: ~80% active content (ext. tested)
VOC: ~77 g/l
Comply with EN 1504-2 (Hydrophobic Impregnation)

Penetration Depth: Class II (≥10 mm)
Water Absorption: <7.5%
Alkali Resistance: <10%
Drying Rate: Class I (>30%)
Freeze & Thaw cycles with de-icing salts: Pass
On Site Penetration Depth: ≥5 mm

Substrate must be clean, sound, and free of surface contaminants. Remove dust, laitance, grease, oils, curing compounds, form release agents and all foreign particles by mechanical means. Substrate shall be in accordance with EN 1504-10 (site application and QC of works) for hydrophobic impregnation or with ICRI Guideline No. 03732 for sealers.

Door and Frames:
Sectional Overhead Doors: Provide two unobstructed rectangular entrance openings, nominal dimensions to be 30' high by 20' wide.

- In each opening, provide an upward acting sectional door (overhead) designed for 20 psf minimum wind load. Supply and install all wood head and jamb framing and blocking as called for by door manufacturer.
- A chain hoist to provide capability for manual operation of each door shall be included.
- Electric door operators shall be jack shaft, side mounted, model as recommended by door manufacturer for door size and lift condition, with standard hardware operable both from inside and outside of building.

Service Doors:
In the concrete wall adjacent to each overhead door, furnish and install one 3'-0" x 7’-0" exterior grade fiberglass swing-out pass door with fiberglass jambs and hardware, color as selected by Owner.

Electrical and Lighting:
Perform all electrical work per applicable codes and shall be inspected and approved by the local building department. Coordinate the power supply to the salt storage building. Power shall be placed underground and be brought to the side nearest the southern building entrance. Place electrical underground conduit prior to commencement of asphalt pad construction. Locate the electrical panel in compliance with proper clearances in compliance with all applicable codes on the interior face of the southern building walls, adjacent to the entryway.

See Electrical plans for additional information.

Pipe Bollards:
Furnish and install pipe bollards indicated on the drawings to be used as door jamb guard posts, minimum 6 inches in diameter and 6 feet in height above finished grade, consisting of standard weight galvanized steel structural pipe, filled with concrete. Form concrete crown at top of bollard. These shall be embedded in concrete footings, and painted federal

safety yellow using rust-inhibitive paint. Paint shall be applied to entire length of pipe, including the joint between pipe and footing.

Accessories:
General: Provide accessories as standard with building system manufacturer and as specified. Fabricate and finish accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes. Comply with indicated profiles and with dimensional and structural requirements.

- Form exposed sheet metal accessories that are without excessive oil-canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.

Flashing and Trim:
Formed from 0.022-inch nominal-thickness, metallic-coated steel sheet or aluminum-zinc alloy-coated steel sheet pre-painted with coil coating; finished to match adjacent metal panels.

B.5 Final Grading and Restoration
Final Grading and Restoration to be done by others.

B.6 Electrical
Provide power to the Salt Storage Facility and furnish and install all lighting, wiring, and other electrical equipment.

C Construction
Provide construction execution in compliance with the following:

C.1 Dimensional Requirements for Rectangular Building
Width: 80’-0” (nominal)
Length: 125'-0” (nominal)
Vertical Side Wall Height: 12' above finished floor
Overall Height: Not to exceed 45'-0" above finished grade

C.2 Building Structural Requirements

- Ground Snow Load: 30 pounds per square foot
- Lateral Wind Load: 95 mph
- Soil Bearing Pressure: 3,000 pounds per square foot

C.3 Interior Space
Provide unobstructed interior space to allow charging and re-charging of the pile storage area to full capacity, and to allow unimpeded loading of truck-spreader vehicles with front-end loading equipment. Provide the entire interior floor area free of columns or roof supports of any type.

Minimum Center Clearance: Provide a 34-ft. clear height at the center of the building width and extending the length of the building. This clearance shall be maintained in an area at least 30 ft. wide, running the length of the structure.

C.4 Exterior Wall Construction

Provide exterior wall system or components of reinforced concrete as indicated on the drawings to provide a durable weather-resistant barrier, which may be maintained easily by Owner with non-proprietary products readily available for such purpose.

C.5 Doors

Provide two unobstructed rectangular entrance openings, under side dormers, nominal dimensions to be 30' high by 20' wide.

- In each opening, provide an upward acting sectional door (overhead) designed for 20 psf minimum wind load. Supply and install all wood head and jamb framing and blocking as called for by door manufacturer.
- A chain hoist to provide capability for manual operation of each door shall be included.
- Electric door operators shall be jack shaft, side mounted, model as recommended by door manufacturer for door size and lift condition, with standard hardware operable both from inside and outside of building.

In the wall adjacent to the each overhead door, furnish and install one 3'-0" x 7'-0" exterior grade fiberglass swing-out pass door with jambs and hardware, color as selected by owner.

C.6 Pipe Bollards

Furnish and install pipe bollards indicated on the drawings to be used as door jamb guard posts, minimum 6 inches in diameter and 6 feet in height above finished grade, consisting of standard weight galvanized steel structural pipe, filled with concrete. Form concrete crown at top of bollard. These shall be embedded in concrete footings, and painted federal safety yellow using rust-inhibitive paint. Paint shall be applied to entire length of pipe, including the joint between pipe and footing.

C.7 Roofing System

Install metal flashings according to recommendations in NRCA's "The NRCA Roofing and Waterproofing Manual."

C.8 Ventilation

Provide suitable openings located at or near the highest point of the roof to provide a minimum ratio of 1 sq. in. of free air area for each 55 sq. ft. of building floor area.

C.9 Electrical Work

Perform all electrical work per applicable codes and shall be inspected and approved by the local building department.

C.10 Testing
Concrete Testing to be done per standard spec 716:

Test all concrete per standard spec 716 except as follows:

2. Cast one set of 2 cylinders per 75 yards for each mix grade and placement method. Cast a minimum of one set of 2 cylinders per contract for each mix grade and placement method. Random 28-day compressive strength cylinders are not required for HES or SHES concrete.

Testing for all materials shall be in accordance to the pertinent section of the standard specifications and performed by the contractor.

The contractor shall also provide maintenance and service information for the principal components of the salt storage building.

C.11 Construction Staking and Survey
Perform all survey and construction staking necessary to complete construction to the dimensions and elevations identified in the contract plans and specifications. Bench mark data is included in the plans. The contractor is to verify the accuracy of the bench marks with the Engineer prior to the start of construction.

C.12 Remedial Work
Remedial work will be based on the result of manual surveys or evaluations. Perform remedial work in the same calendar year that the distresses were recorded. Remedial work to be performed and materials to be used will be the joint decision of the contractor and the engineer.

The contractor will have the first option to perform the remedial work. If, in the opinion of the engineer, the problem requires immediate attention for the safety of the public, and the contractor cannot perform the remedial work within eight hours, the engineer may have the remedial work performed by other forces and at the contractor's expense.

Remedial work performed by other forces will not alter the requirements, responsibilities, or obligations of the warranty.

If remedial action work or elective/preventive action work performed by the contractor necessitates a corrective action to other components of the Salt Storage Facility, then such corrective action will be the responsibility of the contractor.

D Measurement
The department will measure Crawford County Salt Storage Facility 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	Crawford County Salt Storage Shed	LS

Payment is full compensation for designing the high-gambrel arch Salt Storage Facility; providing all items in this special provision, including, but not limited to the footing/foundation, wall, epoxy coated steel reinforcement, prefabricated roof structure, roofing, doors, all electrical materials and components, including underground wiring and conduit; for fabricating, including all cutting, preparing, welding and coating; for installing, transporting, erecting and testing all necessary items; for providing electrical service; for furnishing all construction staking and survey; and for furnishing all labor, tools, equipment and incidentals necessary to complete the contract work.

60. Concrete Pavement Joint Layout, Item SPV.0105.02.

A Description

This special provision describes providing a concrete pavement or concrete base joint layout design for intersections and marking 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 to prevent uncontrolled cracking. Submit a joint layout design to the engineer before paving each intersection. Mark the location of all concrete joints in the field. Follow the plan details for joints in concrete making adjustments as required to fit field conditions.

D Measurement

The department will measure Concrete Pavement Joint Layout as a single lump sum unit for all joint layout designs and marking, acceptably completed under the contract.

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	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.

61. Wall Modular Block Mechanically Stabilized Earth LRFD, Item SPV.0165.01.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years.

B Materials

B.1 Proprietary Mechanically Stabilized Earth Modular Block Wall Systems

The supplied wall system must be from the department's approved list of modular block mechanically stabilized earth wall systems.

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 department's Bureau of Structures, Structures Design Section. 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. The name of the companies supplying pre-approved material shall be furnished within 25 days after the award of contract.

Applications for pre-approval may be submitted at any time. Applications must be prepared according to the requirements of current Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Structures Design 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 the proposed wall design is in compliance with the design specifications.

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 8 ½ inch x 11 inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The wall shall be designed for the heights shown on the plans. The design shall be in compliance with the *AASHTO LRFD Design Specifications* 5th *Edition* 2010 (AASHTO LRFD) with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current *Standard Specifications for Highway and Structure Construction*

(Standard Specifications), Chapter 14 of the WisDOT LRFD Bridge Manual and standard design procedures as determined by the department. Loads, load combinations and load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.6-1 in AASHTO LRFD.

The design shall include a minimum overburden surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as shown on the plans. The maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations is performed by the department or its design consultant and the Capacity Demand Ratio (CDR) for sliding, eccentricity, and bearing check is provided by the department or its consultant and shown on the plans.

The design of the Wall Modular Block Mechanically Stabilized Earth shall consider the internal stability of the wall mass (tensile stress, pullout resistance, and tensile stress at the connection with the facing) within each layer of reinforcement for the applicable strength limit and extreme event limit states. Maximum factored loads applied to reinforcements for pullout and the connection to the wall face shall be calculated using the Simplified Method or Coherent Gravity Method, as presented in AASHTO LRFD. In addition, compound stability shall be computed for the applicable strength limit and extreme event limit states according to AASHTO LRFD.

The minimum embedment to the top of the leveling pad shall be as specified in the plans. Potential depth of frost penetration at the wall location shall not be considered in designing the wall for depth of leveling pad.

100% of the soil reinforcement shall be connected to the wall facings. The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height or as shown on the plans. In no case shall this length be less than 6 feet. The soil reinforcement shall extend a minimum of 3 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be two times the block depth (front face to back face) or 32 inches, whichever is less. The first (bottom) layer of reinforcement shall be placed no further than 12 inches above the top of the leveling pad or the height of the block, but at least one block height above the leveling pad. The last (top) layer of soil reinforcement shall be no further than 21 inches below the top of the uppermost block.

Submit the following to the engineer for review: complete design calculations, explanatory notes, supporting materials, specifications, and detailed plans and shop drawings for the proposed wall system. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal stabilities as defined in AASHTO LRFD.

The wall submittal package shall be submitted electronically to the engineer and Structures Design Section. Submit all required information no later than 30 days prior to beginning construction of the wall. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls.

B.3 Wall System Components

Materials furnished under this contract shall conform to the requirements of this specification. All certifications related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Leveling Pad

The leveling pad shall step to follow the general slope of the ground line. The leveling pad steps shall keep the bottom of the wall below the minimum embedment. Additional embedment that is greater than the minimum embedment will not be measured for payment. The leveling pad shall be as wide as the proposed blocks or a minimum of 12 inches, whichever is greater. The bottom row of blocks shall be horizontal and 100% of the block surface shall bear on the leveling pad.

Provide a 6 inches deep by 12 inch (minimum) wide wall leveling pad that consists of poured concrete masonry, Grade A , A-FA, A-S, A-T, A-IS, or A-IP concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in Standard Specification A concrete leveling pad shall be provided in following scenarios:

a. When the wall height measured from the top of the leveling pad to the top of the wall exceeds 5 feet at any point along the entire wall length.
b. a structure number has been assigned (such as R-XX-XXX), regardless of wall height.

Additionally, for walls that are less than or equal to 5 feet in height and do not have a wall number assigned to them, a compacted 1 foot deep by 2 foot wide leveling pad made from base aggregate dense 1¼-inch in conformance with standard spec 305 may be used.

B.3.2 Wall Facing

Wall facing units shall consist of precast modular concrete blocks. All units shall incorporate a mechanism or devices that develop a mechanical connection between vertical block layers. Units that are cracked, chipped, or have other imperfections according to ASTM C1372, or have 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 appearance that complement 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 and at maximum spacing of 10 feet. Concrete for all cast-in-place caps shall be Grade A and shall conform to the requirements of Section 501 of the Standard Specifications.

Block dimensions may vary no more than ±1/8 inch from the standard values published by the manufacturer according to ASTM C1372. Blocks must have a minimum depth (front face to back face) of 12 inches. The minimum front face thickness of blocks shall be 4 inches measured perpendicular from the front face to inside voids greater than 4 square inches. The minimum allowed thickness of any other portions of the block is 1¾ inches. The front face of the blocks shall conform to plan requirements for color, texture, or patterns.

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 (%) 40 cycles, 5 of 5 samples 50 cycles, 4 of 5 samples	ASTM C1262[1]	 1.0 max.[2] 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 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 conducting the sampling and testing, the type of block, the date sampled, the name of the person who conducted 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. The tests should have been conducted not more than 18 months prior to delivery. A lot shall not exceed 5000 blocks or fraction thereof produced in day. The certified test results will represent all blocks within the lot. Each pallet of blocks delivered shall bear lot identification information. Block lots that do not meet the requirements of this specification or blocks without supporting certified test reports will be rejected and shall be removed from the project at no expense to the department.

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. At no expense to the department, the contractor shall remove all rejected blocks from the project.

The department may conduct testing of certified or non-certified modular blocks lots delivered to the project. The department will not conduct 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 not 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 Geogrids

Geogrid supplied as reinforcing members shall be manufactured from long chain polymers limited to polypropylene, high-density polyethylene, polyaramid, and polyester. Geogrids shall form a uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. The minimum grid aperture shall be 0.5 inch. The geogrid shall maintain dimension stability during handling, placing, and installation. The geogrid shall be insect, rodent, mildew, and rot resistant. The geogrid shall be furnished in a protective wrapping that shall prevent exposure to ultraviolet radiation and damage from shipping or handling. The geogrid shall be kept dry until installed. Each roll shall be clearly marked to identify the material contained.

The wall supplier shall provide the nominal long-term design strength (T_{al}) and nominal long-term connection strength, T_{alc} as discussed below.

Nominal Long-Term Design Strength (T_{al})

The wall supplier shall supply the nominal long-term design strength (T_{al}) used in the design for each reinforcement layer and shall be determined by dividing the Ultimate Tensile Strength (T_{ult}) by the factors RF_{ID}, RF_{CR}, RF_{D}.

Hence,

$$T_{al} = \frac{T_{ult}}{RF_{ID} \times RF_{CR} \times RF_{D}}$$

where:

T_{ult} = ultimate tensile strength of the reinforcement determined from wide width tensile tests (ASTM D6637) for geogrids based on the minimum average roll value (MARV) for the product

RF_{ID} = strength reduction factor to account for installation damage to the reinforcement. In no case shall RF_{ID} be less than 1.1.

RF_{CR} = strength reduction factor to prevent long-term creep rupture of the reinforcement. In no case shall RF_{CR} be less than 1.2.

RF_D = strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation. In no case shall RF_D be less than 1.1.

Values for RF_{ID}, RF_{CR}, and RF_D shall be determined from product specific test results. Guidelines for determining RF_{ID}, RF_{CR}, and RF_D from product specific data are provided in FHWA Publication No. FHWA-NHI-10-024 and FHWA –NHI-10-025 "Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes".

Nominal Long-term Connection Strength T_{ac}

The nominal long term connection strength, $T_{ac,}$ shall be based on laboratory geogrid connection tests between wall facing and geogrids. T_{ac} shall be as given below

$$T_{ac} = \frac{T_{ult} * CR_{cr}}{RF_D}$$

where:

T_{ac} = nominal long-term reinforcement facing connection strength per unit reinforcement width at a specified confining pressure

T_{ult} = ultimate tensile strength of the reinforcement for geogrids defined as the minimum average roll value (MARV) for the product

CR_{cr} = long term connection strength reduction factor to account for reduced ultimate strength resulting from connection.

RF_D = strength reduction factor to prevent rupture of the reinforcement due to chemical and biological degradation.

T_{ac} shall be developed from the tests conducted by an independent laboratory on the same facing blocks and geogrids as proposed for the wall and shall cover a range of overburden pressures comparable to those anticipated in the proposed wall. The connection strength

reduction factor CR_{cr} shall be determined according to long-term connection test as described in Appendix B of FHWA Publication No. FHWA-NHI 10-025 "Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes". CR_{cr} may also be obtained from the short term connection test meeting the requirements of NCMA test method SRWU-1 in Simac et al 1993 or ASTM D4884.

The contractor shall provide a manufacturer's certificate that the Tult (MARV) of the supplied geogrid has been determined according to ASTM D4595 or ASTM D6637 as appropriate. Contractor shall also provide block to block and block to reinforcement connection test reports prepared and certified by an independent laboratory. Also provide calculations according to AASHTO LRFD, and using the results of laboratory tests, that the block-geogrid connections shall be capable of resisting 100% of the maximum tension load in the soil reinforcements at any level within the wall, for the design life of the wall system.

B.3.4 Galvanized Metal Reinforcement

In lieu of polymeric geogrid earth reinforcement, galvanized metal reinforcement may be used. Design and materials shall be according to Section 11.10.6.4.2 of the current *AASHTO LRFD* Specifications. The design life of steel soil reinforcements shall also comply with AASHTO LRFD.

B.3.5 Pins

If pins are used to align modular block facing units, they shall consist of a non-degrading polymer, or hot dipping galvanized steel and be made for the express use with the modular block units supplied, to develop mechanical interlock between facing unit block layers. Connecting pins shall be capable of holding the geogrid in the proper position during backfilling. Furnish documentation that establishes and substantiates the design life of such devices.

B.3.6 Backfill Materials

Wall Backfill, Type A, shall comply with the requirements for Coarse Aggregate No. 1 as given in 501.2.5.4.4 of the Standard Specifications. 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.

Wall Backfill, Type B, shall comply with the requirements for Grade 1 Granular Backfill as contained in standard spec 209.2.2. All backfill placed in a zone extending horizontally from 1 foot behind the back face of the wall to 1 foot beyond the end of the reinforcement and extending vertically from the base of the leveling pad to the top of the final layer of all facing units shall be Wall Backfill, Type B.

Backfill within the reinforced zone shall meet the following requirements:

Test	Method	Value
pH	AASHTO T-289	4.5 – 9.0
Sulfate content[1]	AASHTO T-290	200 ppm max.
Chloride content[1]	AASHTO T-291	100 ppm max.
Electrical Resistivity[1]	AASHTO T-288	3000 ohm/cm min.
Angle of Internal Friction	AASHTO T-236	30 degrees min.
Organic Content[1]	AASHTO T-267	1.0% max.

[1] Requirement does not apply to walls with non-metallic reinforcement.

Prior to placement of the backfill, obtain and furnish to the engineer certified report of test results that the backfill material complies with the requirements of this specification. When backfill characteristics and/or sources change, a certified report of tests must be provided for the new backfill material.

All other backfill materials required to finish the wall and restore the ground surface may be select material available on the project that meets the engineer's approval.

C Construction

C.1 General

Place the wall facing units according to the manufacturer's instructions and to the lines, elevations, batter, and tolerances as shown on the plans. Center the initial layer of facing units on the leveling pad; then level them and properly align them. Fill formed voids or openings in the facing units with wall backfill, Type A. Remove all debris on the top of each layer of facing units, before placing the next layer of facing units.

Install all pins, rods, clips, or other devices used to develop mechanical interlock between facing unit layers according to the manufacturer's directions.

All excavation for the Wall Modular Block Mechanically Stabilized Earth shall conform to standard spec 206. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back face of the wall.

C.2 Backfill

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8-inches in depth. Backfilling shall closely follow erection of each course of wall facing units. Compact wall backfill Type A with at least three passes of lightweight manually operated compaction equipment acceptable to the engineer.

Compact wall backfill Type B as specified in standard spec 207.3.6. Compact Wall Backfill Type B to 95.0% of maximum density as determined by AASHTO T-99, Method C. Perform compaction testing on the backfill. When performing nuclear testing, use a nuclear gauge from the department's approved list, ensure that the operator is a HTCP certified Nuclear Density Technician I, and conform to CMM 8.15 for testing and gauge monitoring methods. Conduct testing at a minimum frequency of 1 test per 2 feet of vertical wall height, per 200 feet length of wall, or major portion thereof. A minimum of one test for every 2-foot layer of vertical wall height is required. Test sites shall be selected using ASTM Method D3665. Deliver documentation of all compaction testing results to the engineer at the time of testing.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall facing units, soil reinforcement, or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

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

C.3 Soil Reinforcement

Place soil reinforcement at the positions and to the lengths as indicated on the accepted shop drawings. Take care that backfill placement over the positioned soil reinforcement elements does not cause damage or misalignment of these elements. Correct any such damage or misalignment as directed by the engineer. Do not operate wheeled or tracked equipment directly on the soil reinforcement. A minimum cover of 6 inches is required before such operation is allowed.

C.4 Geogrid Layers

Place and anchor geogrid material between wall unit layers in the same manner as used to determine the Geogrid Block-to-Connection Strength. Place the grid material so that the machine direction of the grid is perpendicular to the wall face. Each grid layer shall be continuous throughout the lengths indicated on the plans. Join grid strips with straps, rings, hooks or other mechanical devices to prevent movement during backfilling operations. Prior to placing backfill on the grid, pull the grid taunt and hold in position with pins, stakes or other methods approved by the engineer.

C.5 Steel Layers

Place the steel reinforcement full width in one piece as shown on the plans. No splicing will be allowed. Maintain elements in position during backfilling.

C.6 Geotechnical Information
Geotechnical data to be used in the design of the wall is given on the wall plan. After completion of wall excavation, notify the department and allow two days for the Regional Soil Engineer to review the foundation.

D Measurement
The department will measure Wall Modular Block Mechanically Stabilized Earth LRFD in area by the square foot acceptably completed, measured as the vertical area within the pay limits the contract plan show. No other measurement of quantities shall be made in the field unless the engineer directs in writing a change to the limits indicated on the contract plans.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Wall Modular Block Mechanically Stabilized Earth LRFD	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, copings and leveling pad; constructing the retaining system and wall drainage systems if applicable; providing backfill, backfilling and compacting, and performing compaction testing; and for furnishing all tools, labor, equipment, and incidentals necessary to complete the contract work. 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.
LRFD 532-031S (071612)

62. 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 according to the plans, standard spec 645, 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 □0.04 inch long. Test specimen widths for differing geogrids shall be variable and equal to 1 element plus ½ the aperture width on both sides of that element. An element is defined as the minimum number of parallel strands that 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. Place, spread, and compact the required backfill material 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 and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Geogrid Reinforcement	SY

Payment is full compensation for furnishing, transporting, and installing the geogrid; and furnishing and installing all devices and materials necessary to join or secure the geogrid in place.

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 12 *(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 __7__ *(number)* TrANS Apprentice(s) be utilized on this contract.

3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.

5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

I. RATIONALE AND SPECIAL NOTE

The $5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the $5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

II. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. *TRANS TRAINING*

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. APPRENTICESHIP TRAINING

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical under-representation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

(1) To increase the overall effectiveness of the State highway agencies' approved training programs.
(2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b*)* (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a*)* (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3
DISADVANTAGED BUSINESS ENTERPRISE 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://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx

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

http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/ucp-directory.xlsx

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

http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.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://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/policy-statement.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		DBE Contractor Contact Person	
Phone:		Phone	
Fax:		Fax	
Email:		Email	

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clear and Grub	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred 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

- Prime contractor open houses inviting DBE firms to see the bid "war room" or providing technical assistance
- Participate in speed networking and mosaic exercises as arranged by DBE office
- Host information sessions not directly associated with a bid letting;
- Participate in a formal mentor protégé or joint venture with a DBE firm
- Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings
- Facilitate a small group DBE 'training session' Clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications and communication methods
- Encourage subcontractors to solicit and highlight DBE participation in their quotes to you
- Quality of communication, not quantity creates the best results. Contractors should 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

- DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Review the status of contracts on the HCCI website reviewing the 'apparent low bidder' list, and bid tabs at a minimum.
- Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation-related projects of similar size and scope, firm expertise and staffing.
- Participate in DBE office assessment programs
- Participate on advisory and mega-project committees
- Sign up to receive the DBE Contracting Update
- Consider membership in relevant industry or contractor organizations
- Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the department are the only ways to get work.

APPENDIX 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 PROVISIONS 5

Fuel Cost Adjustment

A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.0100	Backfill Granular	CY	0.23
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

C Fuel Index

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is $1.90 per gallon.

D Computing the Fuel Cost Adjustment

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

(1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.

(2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.

(3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.

(4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left(\frac{CFI}{BFI} - 1 \right) x\ Q\ x\ BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

E Payment

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.

ADDITIONAL SPECIAL PROVISION 6
ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

550.5.2 Piling

Add the following as paragraph three effective with the December 2015 letting:

(3) The department will not entertain a change order request for a differing site condition under 104.2.2.2 or for a quantity change under 104.2.2.4.3 for the Piling bid items. Instead the department will adjust pay under the Piling Quantity Variation administrative item if the total driven length of each size is less than 85 percent of, or more than 115 percent of the contract quantity as follows:

Percent of Contract Length Driven	Pay Adjustment
< 85	(85% contract length - driven length) x 20% unit price
> 115	(driven length - 115% contract length) x 5% unit price

643.2.1 General

Replace paragraph two with the following effective with the December 2015 letting:

(2) Use reflective sheeting from the department's approved products list on barricades, drums, and flexible tubular marker posts.

Errata

Make the following corrections to the standard specifications:

641.2.9 Overhead Sign Supports

Correct errata adding back accidentally deleted paragraphs one through three.

(1) Provide commercially fabricated overhead sign supports conforming to AASHTO design and fabrication standards for structural supports for highway signs, luminaires, and traffic signals. Use a design life of 50 years with a wind importance factor of 1.00. Design to withstand a 3 second gust wind speed of 90 mph. Do not use the methods of appendix C of those AASHTO standards.

(2) Design structures, listed as applicable structure types in the AASHTO standards, to the fatigue category criteria as follows:

1. Structures carrying variable message signs:
   - Category I criteria for structures over all roadway types.
2. Structures carrying type II or III signs:
   - Category I criteria for structures used over highways and free flow ramps.
   - Category II criteria for structures with arms greater than 30 feet used over local roads and city streets.
   - Category III criteria for structures with arms 30 feet or less used over local roads and city streets.

(3) Use the posted speed limit of the roadway beneath the structure for truck-induced gusts.

(4) Submit shop drawings identified by structure number, design computations, and material specifications, to the engineer before erecting sign supports. Provide tightening procedures for mast arm or luminaire arm to pole shaft connections on the shop drawings. Have a professional engineer registered in the state of Wisconsin sign, seal, and date the shop drawings and certify that the design conforms to AASHTO standards and the contract.

(5) Provide steel pole shafts and mast arms zinc coated according to ASTM A123. Provide tapered pole and arm shafts with a minimum taper of 0.14 inch per foot for single-member vertical and single-member horizontal structure components. Provide bolts and other hardware conforming to 641.2.2.

ADDITIONAL SPECIAL PROVISION 7

A. Reporting 1st Tier and DBE Payments During Construction

1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
5. 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://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx

(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://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

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:

County	%	County	%	County	%
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

   As referred to in this section, the Director means:

   Director
   Office of Federal Contract Compliance Programs
   Ruess Federal Plaza
   310 W. Wisconsin Ave., Suite 1115
   Milwaukee, WI 53202

   The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

Effective August 2015 letting

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or $2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this “Buy America” provision.

http://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

http://wisconsindot.gov/rdwy/worksheets/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

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 contacts.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this in 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
CRAWFORD 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, 2015

CLASSIFICATION: Contractors are required to call the Department of Workforce Development if there are any questions reqarding 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.

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	$	$	$
Bricklayer, Blocklayer or Stonemason	29.00	1.50	30.50
Carpenter	32.72	16.00	48.72
Future Increase(s): Add $1.42/hr on 6/1/2015; Add $1.42/hr on 6/1/2016. 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.			
Cement Finisher	33.86	17.96	51.82
Future Increase(s): 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	32.82	20.16	52.98
Fence Erector	18.50	5.34	23.84
Ironworker	31.50	20.01	51.51
Line Constructor (Electrical)	36.66	27.25	63.91
Painter	26.65	16.09	42.74
Pavement Marking Operator	26.04	20.63	46.67
Piledriver	30.11	26.51	56.62
Future Increase(s): Add $1.50/hr on 6/1/2015; Add $1.60/hr on 6/1/2016. Premium Pay: Add $.65/hr for Piledriver Loftsman; Add $.75/hr for Sheet Piling Loftsman. 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.			
Roofer or Waterproofer	18.40	9.83	28.23
Teledata Technician or Installer	24.89	7.87	32.76
Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	$	$	$
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	14.98	46.58
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	12.83	38.51
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	11.63	33.38
TRUCK DRIVERS			
Single Axle or Two Axle	25.18	18.31	43.49
Future Increase(s): Add $1.15/hr on 6/1/2015. 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.			
Three or More Axle	23.31	18.98	42.29
Articulated, Euclid, Dumptor, Off Road Material Hauler	30.27	21.15	51.42
Future Increase(s): 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.			
Pavement Marking Vehicle	23.16	20.01	43.17
Shadow or Pilot Vehicle	24.37	17.77	42.14
Truck Mechanic	23.31	18.98	42.29
LABORERS			
General Laborer	30.13	15.14	45.27
Future Increase(s): Add $1.05/hr eff. 06/01/2015; Add $1.00/hr eff. 06/01/2016; Add $1.00/hr eff. 06/01/2017 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	24.58	14.61	39.19
Landscaper	30.13	15.14	45.27
Future Increase(s): Add $1.05/hr eff. 06/01/2015; Add $1.00/hr eff. 06/01/2016; Add $1.00/hr eff. 06/01/2017 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 $1.25/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	26.76	15.14	41.90
Future Increase(s): Add $1.05/hr eff. 06/01/2015; Add $1.00/hr eff. 06/01/2016; Add $1.00/hr eff. 06/01/2017 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 $1.25/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under			

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
artificial illumination with traffic control and the work is completed after sunset and before sunrise.			
Fiber Optic Laborer (Outside, Other Than Concrete Encased)	26.92	13.45	40.37
Railroad Track Laborer	16.00	7.64	23.64
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).	37.72	21.15	58.87
Future Increase(s): 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.			
Backhoe (Track Type) Having a Mfgr.'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.	37.22	21.15	58.37
Future Increase(s): 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 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 Mfgr.'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	36.72	21.15	57.87

TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	$	$	$
Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A- Frames. Future Increase(s): 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 Sawer (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. Future Increase(s): 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.	36.46	21.15	57.61
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. Future Increase(s): 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.	36.17	21.15	57.32
Fiber Optic Cable Equipment.	30.32	18.20	48.52

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin
GENERAL DECISION NUMBER: WI150010
DATE: November 13, 2015
DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

LABORERS CLASSIFICATION:	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	$30.67	15.55
Group 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);	30.77	15.55
Group 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off man	30.82	15.55
Group 4: Line and Grade Specialist	31.02	15.55
Group 5: Blaster and Powderman	30.87	15.55
Group 6: Flagperson; Traffic Control	27.30	15.55

CLASSES OF LABORER AND MECHANICS

Bricklayer	35.94	17.05
Carpenter	30.48	15.80
Millwright	32.11	15.80
Piledriverman	30.98	15.80
Ironworker	32.85	21.84
Cement Mason/Concrete Finisher	31.37	16.85
Electrician		See Page 3
Line Construction		
Lineman	42.14	32% + 5.00
Heavy Equipment Operator	40.03	32% + 5.00
Equipment Operator	33.71	32% + 5.00
Heavy Groundman Driver	26.78	14.11
Light Groundman Driver	24.86	13.45
Groundsman	23.18	32% + 5.00
Painters	22.03	12.45
Well Drilling:		
Well Driller	16.52	3.70

Truck Drivers:	Basic Hourly Rates	Fringe Benefits
1 & 2 Axles	25.18	18.31
Three or More Axles; Euclids, Dumptor & Articulated, Truck Mechanic	25.38	18.31

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 2, 2015; Modification #1 dated January 16, 2015; Modification #2 dated March 20, 2015; Modification #3 dated April 10, 2015; Modification #4 dated May 22, 2015; Modification #5 dated June 12, 2015;Modification #6 dated June 26, 2015; Modification #7 dated July 31, 2015; Modification #8 dated August 7, 2015; Modification #9 dated August 28, 2015; Modification #10 dated October 9, 2015; Modification #11 dated November 13, 2015.

SUPERSEDES DECISION WI20120010
U. S. DEPARTMENT OF LABOR
(DAVIS-BACON ACT, MINIMUM WAGE RATES)

STATE: Wisconsin
GENERAL DECISION NUMBER: WI150010
DATE: November 13, 2015
DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

POWER EQUIPMENT OPERATORS CLASSIFICATION:	Basic Hourly Rates	Fringe Benefits
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	$38.27	$21.55
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.	$37.77	$21.55
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 (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.	$37.27	$21.55
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.	$37.01	$21.55
Group 5: Air compressor; power pack; vibratory hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; concrete pro-portioning 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.	$36.72	$21.55
Group 6: Off – road material hauler with or without ejector	$30.82	$21.55

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: WI150010
DATE: November 13, 2015
DESCRIPTION OF WORK: Highways and Airport Runway and Taxiway Construction

LABORERS CLASSIFICATION:	Rates	Benefits
Electricians		
Area 1	$29.60	26.5%+ 9.15
Area 2:		
Electricians	31.21	18.92
Area 3:		
Electrical contracts under $130,000	28.96	18.26
Electrical contracts over $130,000	31.16	18.34
Area 4:	29.84	29.50% + 9.37
Area 5	28.96	24.85% + 9.70
Area 6	35.25	19.30
Area 8		
Electricians	31.90	24.95% + 10.46
Area 9:		
Electricians	35.75	19.87
Area 10	29.64	20.54
Area 11	32.54	24.07
Area 12	34.98	19.89
Area 13	35.13	23.09
Teledata System Installer		
Area 14		
Installer/Technician	22.50	12.72
Sound & Communications		
Area 15		
Installer	16.47	14.84
Technician	26.00	17.70

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 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, TREMPEALEAU, VERNON and WASHBURN COUNTIES

Area 3 - FLORENCE (townships of Aurora, Commonwealth, Fern, Florence and Homestead), MARINETTE (Niagara township)

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.

Area 5 - ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Area North of the town of Wausaukee), 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 6 - KENOSHA COUNTY

Area 8 - DODGE, (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington township), ROCK and WALWORTH COUNTIES

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 10 - CALUMET (Township of New Holstein), DODGE (East of Hwy. 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

Area 11 - DOUGLAS COUNTY

Area 12 - RACINE (except Burlington township) COUNTY

Area 13 - MILWAUKEE, OZAUKEE, WASHINGTON and WAUKESHA COUNTIES

Area 14 - Statewide.

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.

State of Wisconsin Department of Workforce Development Equal Rights Division	**DEPARTMENTAL ORDER**

ISSUE DATE: 11/23/2015

PROJECT:

PRAIRIE DU CHIEN BYPASS, SOUTH TOWN LANE ELY TO STH 60, SALT STORAGE FACILITY
PRAIRIE DU CHIEN CITY, CRAWFORD COUNTY, WI
Determination No. 201502904

PROJECT OWNER:	REQUESTER:
TIMOTHY MAEDKE, PROJECT MANAGER WISDOT 3550 MORMON COULEE ROAD LA CROSSE, WI 54601	TIMOTHY MAEDKE, PROJECT MANAGER WISDOT 3550 MORMON COULEE ROAD LA CROSSE, WI 54601
ADDITIONAL CONTACT:	**NOTE:** The Requester must provide a copy of this Project Determination and enclosures to the Project Owner and Additional Contact.

The department received an application for prevailing wage rate determination for the above-captioned project. The department conducted a survey to determine the prevailing wage rate for the trade(s) or occupation(s) needed to complete the project. The survey's findings appear in the attached project determination.

If you believe that the wage rate for any trade or occupation does not accurately reflect the prevailing wage rate in the city, village or town where the project is located, you may ask the department to conduct an administrative review of such wage rate. You must submit this request in writing within 30 days from the date indicated above. Additionally, your request must include wage rate information from at least three similar projects in the city, village or town where the proposed project is located and on which some work has been performed by the contested trade(s) during the current survey period and was previously considered by the department in issuing the attached determination. See DWD 290.10 of the Wisconsin Administrative Code and either s. 66.0903(3)(br), Stats., or s. 103.49(3)(c), Stats., for a complete explanation of the administrative review process.

Enclosures

It is hereby ordered that the prevailing wage rates set forth in the attached project determination shall only be applicable to the above referenced project. This order is a **FINAL ORDER** of the department unless a timely request for an administrative review is filed with the department.

ISSUED BY:

Equal Rights Division
Labor Standards Bureau
Construction Wage Standards Section
P.O. Box 8928, Madison, WI 53708-8928
(608)266-6861

Web Site: http://dwd.wisconsin.gov/er/

PREVAILING WAGE RATE DETERMINATION
Issued by the State of Wisconsin
Department of Workforce Development
Pursuant to s. 103.49, Wis. Stats.
Issued On: 11/23/2015

DETERMINATION NUMBER: 201502904

EXPIRATION DATE: Prime Contracts MUST Be Awarded or Negotiated On Or Before 5/21/2016. If NOT, You MUST Reapply.

PROJECT NAME: PRAIRIE DU CHIEN BYPASS, SOUTH TOWN LANE ELY TO STH 60, SALT STORAGE FACILITY

PROJECT LOCATION: PRAIRIE DU CHIEN CITY, CRAWFORD COUNTY, WI

CONTRACTING AGENCY: WISDOT

CLASSIFICATION:	Contractors are responsible for correctly classifying their workers. Either call the Department of Workforce Development (DWD) with trade or classification questions or consult DWD's Dictionary of Occupational Classifications & Work Descriptions on the DWD website at: dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm.
OVERTIME:	Time and one-half must be paid for all hours worked: - over 10 hours per day on prevailing wage projects - over 40 hours per calendar week - Saturday and Sunday - on all of the following 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. Apply the time and one-half overtime calculation to whichever is higher between the Hourly Basic Rate listed on this project determination or the employee's regular hourly rate of pay. Add any applicable Premium or DOT Premium to the Hourly Basic Rate before calculating overtime. A DOT Premium (discussed below) may supersede this time and one-half requirement.
FUTURE INCREASE:	When a specific trade or occupation requires a future increase, you MUST add the full hourly increase to the "TOTAL" on the effective date(s) indicated for the specific trade or occupation.
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, whevenever such pay is applicable.
DOT PREMIUM:	This premium only applies to highway and bridge projects owned by the Wisconsin Department of Transportation and to the project type heading "Airport Pavement or State Highway Construction." DO NOT apply the premium calculation under any other project type on this determination.
APPRENTICES:	Pay apprentices a percentage of the applicable journeyperson's hourly basic rate of pay and hourly fringe benefit contributions specified in this determination. Obtain the appropriate percentage from each apprentice's contract or indenture.
SUBJOURNEY:	Subjourney wage rates may be available for some of the trades or occupations indicated below with the exception of laborers, truck drivers and heavy equipment operators. Any employer interested in using a subjourney classification on this project MUST complete Form ERD-10880 and request the applicable wage rate from the Department of Workforce Development PRIOR to using the subjourney worker on this project.

This document **MUST BE POSTED** by the **CONTRACTING AGENCY** in at least one conspicuous and easily accessible place **on the site of the project** . A local governmental unit may post this document at the place normally used to post public notices if there is no common site on the project. This document **MUST** remain posted during the entire time any worker is employed on the project and **MUST** be physically incorporated into the specifications and all contracts and subcontracts. If you have any questions, please write to the Equal Rights Division, Labor Standards Bureau, P.O. Box 8928, Madison, Wisconsin 53708 or call (608) 266-6861.

The following statutory provisions apply to state agency projects of public works and are set forth below pursuant to the requirements of s. 103.49(3)(a), Stats.

s. 103.49 (1) (c) "PREVAILING HOURS OF LABOR" for any trade or occupation in any area means 10 hours per day and 40 hours per week and may not include any hours worked on a Saturday or Sunday or on any of the following holidays:

1. January 1.
2. The last Monday in May.
3. July 4.
4. The first Monday in September.
5. The 4th Thursday in November.
6. December 25.
7. The day before if January 1, July 4 or December 25 falls on a Saturday.
8. The day following if January 1, July 4 or December 25 falls on a Sunday.

s. 103.49 (2) PREVAILING WAGE RATES AND HOURS OF LABOR.
Any contract made for the erection, construction, remodeling, repairing, or demolition of any project of public works to which the state or any state agency is a party shall contain a stipulation that no person performing the work described in sub. (2m) may be permitted to work a greater number of hours per day or per week than the prevailing hours of labor, except that any such person may be permitted or required to work more than such prevailing hours of labor per day and per week if he or she is paid for all hours worked in excess of the prevailing hours of labor at a rate of at least 1.5 times his or her hourly basic rate of pay; nor may he or she be paid less than the prevailing wage rate determined under sub. (3) in the same or most similar trade or occupation in the area in which the project of public works is situated. A reference to the prevailing wage rates determined under sub. (3) and the prevailing hours of labor shall be published in the notice issued for the purpose of securing bids for the project. If any contract or subcontract for a project of public works that is subject to this section is entered into, the prevailing wage rates determined under sub. (3) and the prevailing hours of labor shall be physically incorporated into and made a part of the contract or subcontract, except that for a minor subcontract, as determined by the department, the department shall prescribe by rule the method of notifying the minor subcontractor of the prevailing wage rates and prevailing hours of labor applicable to the minor subcontract. The prevailing wage rates and prevailing hours of labor applicable to a contract or subcontract may not be changed during the time that the contract or subcontract is in force.

s. 103.49 (6M) LIABILITY AND PENALTIES.
(ag) 1. Any contractor, subcontractor, or contractor's or subcontractor's agent who fails to pay the prevailing wage rate determined by the department under sub. (3) or who pays less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor is liable to any affected employee in the amount of his or her unpaid wages or his or her unpaid overtime compensation and in an additional amount as liquidated damages as provided in subd. 2., 3., whichever is applicable.
2. If the department determines upon inspection under sub. (5) (b) or (c) that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the department shall order the contractor to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages within a period specified by the department in the order.
3. In addition to or in lieu of recovering the liability specified in subd. 1. as provided in subd. 2., any employee for and in behalf of that employee and other employees similarly situated may commence an action to recover that liability in any court of competent jurisdiction. If the court finds that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the court shall order the contractor, subcontractor, or agent to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages.

(am) Except as provided in pars. (b), (d) and (f), any contractor, subcontractor or contractor's or subcontractor's agent who violates this section may be fined not more than $200 or imprisoned for not more than 6 months or both. Each day that a violation continues is a separate offense.
(b) Whoever induces any person who seeks to be or is employed on any project of public works that is subject to this section to give up, waive, or return any part of the wages to which the person is entitled under the contract governing the project, or who reduces the hourly basic rate of pay normally paid to a person for work on a project that is not subject to this section during a week in which the person works both on a project of public works that is subject to this section and on a project that is not subject to this section, by threat not to employ, by threat of dismissal from employment, or by any other means is guilty of an offense under s. 946.15 (1).
(c) Any person employed on a project of public works that is subject to this section who knowingly permits a contractor, subcontractor, or contractor's or subcontractor's agent to pay him or her less than the prevailing wage rate set forth in the contract governing the project, who gives up, waives, or returns any part of the compensation to which he or she is entitled under the contract, or who gives up, waives, or returns any part of the compensation to which he or she is normally entitled for work on a project that is not subject to this section during a week in which the person works both on a project of public works that is subject to this section and on a project that is not subject to this section, is guilty of an offense under s. 946.15 (2).
(d) Whoever induces any person who seeks to be or is employed on any project of public works that is subject to this section to permit any part of the wages to which the person is entitled under the contract governing the project to be deducted from the person's pay is guilty of an offense under s. 946.15 (3), unless the deduction would be permitted under 29 CFR 3.5 or 3.6 from a person who is working on a project that is subject to 40 USC 3142.
(e) Any person employed on a project of public works that is subject to this section who knowingly permits any part of the wages to which he or she is entitled under the contract governing the project to be deducted from his or her pay is guilty of an offense under s. 946.15 (4), unless the deduction would be permitted under 29 CFR 3.5 or 3.6 from a person who is working on a project that is subject to 40 USC 3142.

5. No employee may be a party plaintiff to an action under subd. 3. unless the employee consents in writing to become a party and the consent is filed in the court in which the action is brought. Notwithstanding s. 814.04 (1), the court shall, in addition to any judgment awarded to the plaintiff, allow reasonable attorney fees and costs to be paid by the defendant.

BUILDING OR HEAVY CONSTRUCTION

Includes sheltered enclosures with walk-in access for the purpose of housing persons, employees, machinery, equipment or supplies and non-sheltered work such as canals, dams, dikes, reservoirs, storage tanks, etc. A sheltered enclosure need not be "habitable" in order to be considered a building. The installation of machinery and/or equipment, both above and below grade level, does not change a project's character as a building. On-site grading, utility work and landscaping are included within this definition. Residential buildings of four (4) stories or less, agricultural buildings, parking lots and driveways are NOT included within this definition.

SKILLED TRADES

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
101	Acoustic Ceiling Tile Installer Future Increase(s): Add $1.42/hr on 6/1/2015; Add $1.42/hr on 6/1/2016.	32.72	16.00	48.72
102	Boilermaker Future Increase(s): Add $1.50/hr. on 01/01/2016	33.35	28.24	61.59
103	Bricklayer, Blocklayer or Stonemason	29.00	1.50	30.50
104	Cabinet Installer Future Increase(s): Add $1.42/hr on 6/1/2015; Add $1.42/hr on 6/1/2016.	32.72	16.00	48.72
105	Carpenter Future Increase(s): Add $1.42/hr on 6/1/2015; Add $1.42/hr on 6/1/2016. Premium Increase(s): 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.	32.72	16.00	48.72
106	Carpet Layer or Soft Floor Coverer	34.92	13.73	48.65
107	Cement Finisher Future Increase(s): Add $.85 on 06/01/2015; Add $.85on 06/01/2016	28.34	19.26	47.60
108	Drywall Taper or Finisher	24.00	6.79	30.79
109	Electrician	29.72	18.25	47.97
110	Elevator Constructor	43.84	27.10	70.94
111	Fence Erector	18.50	5.34	23.84
112	Fire Sprinkler Fitter	36.79	19.12	55.91
113	Glazier	25.81	6.64	32.45
114	Heat or Frost Insulator	33.43	25.80	59.23
115	Insulator (Batt or Blown) Future Increase(s): Add $1.42/hr on 6/1/2015; Add $1.42/hr on 6/1/2016.	32.72	16.00	48.72

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
116	Ironworker	31.50	20.01	51.51
117	Lather	31.40	15.90	47.30
118	Line Constructor (Electrical)	36.66	27.25	63.91
119	Marble Finisher	19.14	0.00	19.14
120	Marble Mason	29.00	1.50	30.50
121	Metal Building Erector	20.25	7.78	28.03
122	Millwright Future Increase(s): Add $1.47/hr on 6/1/2015; Add $1.47/hr on 6/1/2016.	34.44	16.07	50.51
123	Overhead Door Installer	27.46	1.98	29.44
124	Painter Future Increase(s): Add $.90/hr on 06/01/2015; Add $1.00/hr on 06/01/2016; Add $1.05/hr on 06/01/2017 Premium Increase(s): Add $.20/hr for paperhanging; Add $.35/hr for bridge, iron and drywall; Add $.75/hr for spraying and sandblasting; Add $.60/hr for EIFS work; Add $1.00/hr for lead based paint removal.	29.62	20.74	50.36
125	Pavement Marking Operator	30.10	17.27	47.37
126	Piledriver Future Increase(s): Add $1.50/hr on 6/1/2015; Add $1.60/hr on 6/1/2016. Premium Increase(s): Add $.65/hr for Piledriver Loftsman; Add $.75/hr for Sheet Piling Loftsman. 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.	30.11	26.51	56.62
127	Pipeline Fuser or Welder (Gas or Utility)	31.88	20.89	52.77
129	Plasterer	29.67	17.04	46.71
130	Plumber Future Increase(s): Add $1.40 on 6/1/15	35.55	16.12	51.67
132	Refrigeration Mechanic Future Increase(s): Add $1.40 on 6/1/15	35.55	16.12	51.67
133	Roofer or Waterproofer	18.40	9.83	28.23
134	Sheet Metal Worker Future Increase(s): Add $1.30/hr on 6/1/2015.	28.41	20.72	49.13

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
135	Steamfitter	34.45	21.12	55.57
137	Teledata Technician or Installer	24.89	7.87	32.76
138	Temperature Control Installer	21.00	1.47	22.47
139	Terrazzo Finisher	19.14	0.00	19.14
140	Terrazzo Mechanic	31.18	17.35	48.53
141	Tile Finisher	24.22	18.70	42.92
142	Tile Setter	30.28	18.65	48.93
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
146	Well Driller or Pump Installer	25.32	15.65	40.97
147	Siding Installer	36.17	19.44	55.61
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	30.16	15.11	45.27
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	40.00	20.19	60.19
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	37.00	18.87	55.87
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.83	15.01	42.84
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	38.00	19.41	57.41

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle	22.00	0.00	22.00
203	Three or More Axle	25.30	0.35	25.65
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	33.69	19.78	53.47
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	25.30	0.35	25.65

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer Future Increase(s): Add $1.35/hr eff. 06/01/2015; Add $1.25/hr eff. 06/06/2016 Premium Increase(s): Add $1.00/hr for certified welder and pipelayer; Add $.25/hr for mason tender.	24.97	15.12	40.09
302	Asbestos Abatement Worker	24.82	15.12	39.94
303	Landscaper	29.04	0.90	29.94
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	19.78	16.12	35.90
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	26.92	13.45	40.37
314	Railroad Track Laborer	16.00	7.64	23.64
315	Final Construction Clean-Up Worker	28.31	9.66	37.97

HEAVY EQUIPMENT OPERATORS
SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
501	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Milling Machine; Boring Machine (Directional, Horizontal or Vertical); Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfgr's Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Crane, Shovel, Dragline, Clamshells; Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Grader or Motor Patrol; Master Mechanic; Mechanic or Welder; Robotic Tool Carrier (With or Without Attachments); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Tractor (Scraper, Dozer, Pusher, Loader); Trencher (Wheel Type or Chain Type Having Over 8 Inch Bucket). Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	33.69	19.78	53.47
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under).	32.89	12.82	45.71

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Greaser; High Pressure Utility Locating Machine (Daylighting Machine); Mulcher; Oiler; Post Hole Digger or Driver; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	33.69	19.78	53.47
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator. Premium Increase(s): Add $.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).	41.65	21.71	63.36
506	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	35.72	17.85	53.57
507	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	35.46	20.40	55.86

HEAVY EQUIPMENT OPERATORS
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
508	Boring Machine (Directional); 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; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016. Premium Increase(s): Add $.50/hr for >200 Ton; Add $1/hr at 300 Ton; Add $1.50/hr at 400 Ton; Add $2/hr at 500 Ton & Over.	36.67	19.78	56.45

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
509	Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Caisson Rig; 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; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Pile Driver; Versi Lifts, Tri-Lifts & Gantrys (20,000 Lbs. & Over). Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016. Premium Increase(s): Add $.25/hr for all >45 Ton lifting capacity cranes.	35.42	19.78	55.20
510	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Dredge (NOT Performing Work on the Great Lakes); Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Hydro-Blaster (10,000 PSI or Over); Milling Machine; Skid Rig; Traveling Crane (Bridge Type). Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	34.22	19.78	54.00
511	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Environmental Burner; Gantrys (Under 20,000 Lbs.); Grader or Motor Patrol; High Pressure Utility Locating Machine (Daylighting Machine); Manhoist; Material or Stack Hoist; Mechanic or Welder; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tining or Curing Machine; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	33.69	19.78	53.47
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Grout Pump; Hoist (Tugger, Automatic); Industrial Locomotives; Jeep Digger; Lift Slab Machine; Mulcher; Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames. Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	31.62	19.78	51.40

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work on the Great Lakes); Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Elevator; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Forklift; Generator (&/or 150 KW or Over); Greaser; Heaters (Mechanical); Loading Machine (Conveyor); Oiler; Post Hole Digger or Driver; Prestress Machine; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	32.55	10.30	42.85
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add $1/hr on 6/1/2015; Add $1/hr on 5/30/2016.	36.34	22.14	58.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment). Future Increase(s): Add $1.65/hr on 6/1/2015.	33.12	19.35	52.47
516	Fiber Optic Cable Equipment	30.32	18.20	48.52

SEWER, WATER OR TUNNEL CONSTRUCTION

Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).

SKILLED TRADES

Fringe Benefits Must Be Paid On All Hours Worked

CODE	TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
103	Bricklayer, Blocklayer or Stonemason	29.00	1.50	30.50
105	Carpenter Future Increase(s): Add $1.50/hr on 6/1/2015; Add $1.65/hr on 6/1/2016. Premium Increase(s): 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.	34.13	20.61	54.74
107	Cement Finisher Future Increase(s): Add $1.87 on 6/1/15; Add $1.75 on 6/1/16. Premium Increase(s): 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.	35.18	16.78	51.96
109	Electrician	47.76	0.00	47.76
111	Fence Erector	18.50	5.34	23.84
116	Ironworker	31.50	20.01	51.51
118	Line Constructor (Electrical)	36.66	27.25	63.91
125	Pavement Marking Operator	30.10	17.27	47.37
126	Piledriver	29.56	25.71	55.27
130	Plumber	21.50	0.00	21.50
135	Steamfitter	34.45	21.12	55.57
137	Teledata Technician or Installer	24.89	7.87	32.76
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
146	Well Driller or Pump Installer	25.32	15.65	40.97
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	15.19	46.79
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	13.28	38.96
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle Future Increase(s): Add $1.15/hr on 6/1/2015. Premium Increase(s): 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.	25.18	18.31	43.49
203	Three or More Axle	19.50	5.17	24.67
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	32.89	18.96	51.85
205	Pavement Marking Vehicle	20.85	11.02	31.87
207	Truck Mechanic	19.50	5.17	24.67

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer	25.60	17.18	42.78
303	Landscaper	39.43	0.00	39.43
304	Flagperson or Traffic Control Person	31.95	0.00	31.95
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	26.92	13.45	40.37
314	Railroad Track Laborer	16.00	7.64	23.64

HEAVY EQUIPMENT OPERATORS
SEWER, WATER OR TUNNEL WORK

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; 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; Master Mechanic; Pile Driver. Future Increase(s): Add $1.55/hr on 6/1/2015. Premium Increase(s): Add $.25/hr for operating tower crane.	37.24	20.10	57.34
522	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Spreader & Distributor; 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); Milling Machine; Skid Rig; Telehandler; Traveling Crane (Bridge Type). Future Increase(s): Add $1.55/hr on 6/1/2015. Premium Increase(s): Add $.25/hr for operating tower crane.	36.46	20.10	56.56
523	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Boring Machine (Horizontal or Vertical); Bulldozer or Endloader (Over 40 hp); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manhoist; Material or Stack Hoist; Mechanic or Welder; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	33.69	19.78	53.47

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
524	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Environmental Burner; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Hoist (Tugger, Automatic); Grout Pump; Jeep Digger; Lift Slab Machine; Mulcher; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Tining or Curing Machine; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	30.82	18.96	49.78
525	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Loading Machine (Conveyor); Post Hole Digger or Driver; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	50.50	0.42	50.92
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	32.55	10.30	42.85
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
528	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	41.65	21.71	63.36
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	35.72	17.85	53.57
530	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under), Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	35.46	20.40	55.86

LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION

Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

SKILLED TRADES

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
103	Bricklayer, Blocklayer or Stonemason	29.00	1.50	30.50
105	Carpenter Future Increase(s): Add $1.42/hr on 6/1/2015; Add $1.42/hr on 6/1/2016. Premium Increase(s): 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.	32.72	16.00	48.72
107	Cement Finisher Future Increase(s): Add $1.87 on 6/1/15; Add $1.75 on 6/1/16. Premium Increase(s): 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.	33.95	18.01	51.96
109	Electrician	32.04	23.38	55.42
111	Fence Erector	18.50	5.34	23.84
116	Ironworker	31.50	20.01	51.51
118	Line Constructor (Electrical)	36.66	27.25	63.91
124	Painter	29.52	19.99	49.51
125	Pavement Marking Operator	30.10	17.27	47.37
126	Piledriver	29.56	25.71	55.27
133	Roofer or Waterproofer	18.40	9.83	28.23
137	Teledata Technician or Installer	24.89	7.87	32.76
143	Tuckpointer, Caulker or Cleaner	23.60	7.10	30.70
144	Underwater Diver (Except on Great Lakes)	35.40	15.90	51.30
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	35.55	15.57	51.12

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	31.60	15.19	46.79
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	27.65	13.44	41.09
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	25.68	13.28	38.96
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72

TRUCK DRIVERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
201	Single Axle or Two Axle Future Increase(s): Add $1.15/hr on 6/1/2015. Premium Increase(s): 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.	25.18	18.31	43.49
203	Three or More Axle	12.00	1.50	13.50
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add $1.60/hr on 6/2/2015; Add $1.60/hr on 6/3/2016.	33.69	19.78	53.47
205	Pavement Marking Vehicle	20.85	11.02	31.87
206	Shadow or Pilot Vehicle	24.37	17.77	42.14
207	Truck Mechanic	12.00	1.50	13.50

LABORERS

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
301	General Laborer	19.67	14.63	34.30
303	Landscaper Future Increase(s): Add $1.05/hr eff. 06/01/2015; Add $1.00/hr eff. 06/01/2016; Add $1.00/hr eff. 06/01/2017 Premium Increase(s):	30.13	15.14	45.27

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
	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).			
304	Flagperson or Traffic Control Person Future Increase(s): Add $1.05/hr eff. 06/01/2015; Add $1.00/hr eff. 06/01/2016; Add $1.00/hr eff. 06/01/2017 Premium Increase(s): 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.	26.76	15.14	41.90
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	26.92	13.45	40.37
314	Railroad Track Laborer	16.00	7.64	23.64

HEAVY EQUIPMENT OPERATORS
CONCRETE PAVEMENT OR BRIDGE WORK

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
541	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; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): 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 Increase(s): 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.	37.72	21.15	58.87

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; 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; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or 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 $1.25/hr on 6/1/2015; Add $1.30/hr on 6/1/2016; Add $1.25/hr on 6/1/2017. Premium Increase(s): 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.	37.22	21.15	58.37
543	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); 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); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; 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 & A-Frames.	35.72	17.85	53.57

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
544	Backfiller; 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 (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawer (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); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): 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 Increase(s): 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.	36.46	21.15	57.61
545	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; 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
546	Fiber Optic Cable Equipment.	30.32	18.20	48.52
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
548	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	41.65	21.71	63.36
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	35.72	17.85	53.57
550	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	35.46	20.40	55.86

HEAVY EQUIPMENT OPERATORS
ASPHALT PAVEMENT OR OTHER WORK

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
551	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; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.	36.72	20.40	57.12
552	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; 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; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or 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 $1.25/hr on 6/1/2015; Add $1.30/hr on 6/1/2016; Add $1.25/hr on 6/1/2017. Premium Increase(s): 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.	37.22	21.15	58.37
553	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bituminous (Asphalt) Plant & Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb & Gutter Machine; 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; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; 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); 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 & A-Frames.	25.75	19.60	45.35

CODE	Fringe Benefits Must Be Paid On All Hours Worked TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY $	HOURLY FRINGE BENEFITS $	TOTAL $
554	Backfiller; 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 Sawer (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.	25.75	19.60	45.35
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); 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. Future Increase(s): 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 Increase(s): 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.	36.17	21.15	57.32
556	Fiber Optic Cable Equipment.	30.32	18.20	48.52

********** END OF RATES **********

Department of Workforce Development
Equal Rights Division
P.O. Box 8928
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TTY: (608) 264-8752

STATE OF WISCONSIN
DWD
Department of Workforce Development

Scott Walker, Governor
Reginald J. Newson, Secretary

The documents following the Prevailing Wage Rate Determination consist of twenty pages (including this one) of various forms/documents that will be used throughout the completion of the project. The chart below lists the form number, form/document name, the party who uses the document, and the document's number of pages. If you have any questions regarding these forms please call the Prevailing Wage Office at (608)266-6861.

ERD Form Number	Form Name	Party Who Uses the Form	Pages
July 2015 description of recent changes to Wisconsin's prevailing wage laws resulting from enactment of the 2015-17 State Budget Bill.			1
	Prevailing Wage - Public Entity Project Owners	Explanation of project owner responsibilities	2
16056	Post the White Sheet	Contracting agency	1
10908	Consolidated List of Debarred Contractors	Any party contracting someone to complete work on a prevailing wage project	4
	Prevailing Wage – Contractors	Explanation of contractor responsibilities	2
7777	Disclosure of Ownership	Contractors that meet the criteria set out in (3)(A)&(B) of the form	1
5724	Prime Contractor Affidavit of Compliance	Prime contractor files with contracting agency upon completion of the work before receiving final payment	2
10584	Agent or Subcontractor Affidavit of Compliance	Subcontractors file with their awarding contractor upon completion of their work on the project before receiving final payment	2
10880	Request to Employ Subjourneyperson	Contractors wishing to employ a subjourneyperson(s)	1
	Additional General Prevailing Wage Law Information	General information for public entity or any other interested party	3

8/1/2015

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THE 2015-17 BUDGET BILL MADE SIGNIFICANT CHANGES TO WISCONSIN'S PREVAILING WAGE LAWS. HOWEVER, THOSE CHANGES DO NOT GO INTO EFFECT UNTIL JANUARY 1, 2017.

During calendar years 2015 and 2016, DWD will continue to enforce prevailing wage laws for local governmental unit and state agency public works projects under current prevailing wage laws.

2015 Wisconsin Act 55 (the budget bill) repeals the state prevailing wage law for **local governmental units** such as villages, towns, cities, school districts, or sewerage districts effective January 1, 2017. However, if a local governmental unit:

- issues a Request for Bids before January 1, 2017, for a project of public works that is subject to bidding or,
- enters into a contract before January 1, 2017, for a project of public works that is not subject to bidding,

then those public works projects are subject to the current prevailing wage law (§66.0903, Wis. Stats.) through the life of the project. Projects of public works with prevailing wage project determinations issued prior to 2017 continue to be subject to the current prevailing wage law through the life of the project even though the project may have work going on in 2017 or subsequent years.

Contractors working on local governmental unit projects with prevailing wage rate determinations must continue to pay employees the appropriate prevailing wage and maintain required prevailing wage payroll records. For instance, if a contractor is working in 2018 on a public works project with a project determination issued prior to 2017, then the contractor is required to comply with the "old" prevailing wage rate law (§66.0903, Wis. Stats.). After January 1, 2017, DWD will continue to enforce prevailing wage requirements for projects with DWD prevailing wage determinations issued under the "old" prevailing wage laws (§§ 66.0903 & 103.49, Wis. Stats.).

For new public works projects starting on January 1, 2017, state prevailing wage law will only apply to **state agency** and **state highway** projects. Prevailing wage rates applicable to state agencies will be those issued by the U.S. Department of Labor under the Davis-Bacon Act, 40 U.S.C. 3142. The Wisconsin Department of Administration will enforce the new state agency prevailing wage law (§16.856, Wis. Stats.) and the Wisconsin Department of Transportation will continue to enforce prevailing wage on state highway projects (under a law renumbered as §84.062, Wis. Stats.).

As a result of these changes, 2015 will be the last year in which the annual Wisconsin Prevailing Wage Survey will be conducted.

(Drafted July 28, 2015)

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STATE OF WISCONSIN
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PREVAILING WAGE – Public Entity Project Owners

Any public works project that has a total estimated project cost that equals or exceeds single-trade or multiple-trade project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for most of these exclusions. The prevailing wage law that applies to local governmental units is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies is §103.49, Wis. Stats. The applicable administrative rules for all public entities are DWD 290 and DWD 294, Wis. Adm. Code.

Thresholds

A "single-trade project of public works" means a project in which a single trade accounts for 85% or more of the total labor cost of the project. The single trade threshold is $48,000.

A "multiple-trade project of public works" means a project in which no single trade accounts for 85% or more of the total labor cost of the project.

(a) The multiple-trade threshold is $100,000, unless a municipality falls under the description in (b).

(b) The multiple-trade threshold of $234,000 applies to public works projects erected, constructed, repaired, remodeled, or demolished by a private contractor for •a city or village with a population less than 2500 or •a town.

A local governmental unit or state agency that has a public works project that equals or exceeds the prevailing wage thresholds must do all of the following:

- Request a prevailing wage rate determination for the project from DWD at least 30 days before soliciting bids or negotiating contracts. An Application for Prevailing Wage Rate Determination is available on the DWD website: http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm
  To avoid waiting for a project determination use the on-line application system that permits the user to generate a determination immediately and save all documents in PDF form to the user's computer. Use this project determination on line application at the following address:

http://dwd.wisconson.gov/er/prevailing_wage_rate/pw_online_determinations.htm

- Tell potential contractors the project is subject to state prevailing wage law when soliciting bids.

- Include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each prime contractor.

- Award contracts to contractors who do *not* appear on the "Consolidated List of Debarred Contractors."

- Notify contractors that they are required to have a written substance abuse testing program in place that fulfills the requirements of §103.503, Wis. Stats., before commencing work on the prevailing wage project.

- Post the prevailing wage rate determination on the project site. (This document is often referred to as "the white sheet.")

- Notify project contractors that if DWD finds that a contractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.

- Obtain an Affidavit of Compliance from each prime contractor before making final payment for the project.

If the total estimated cost of the project exceeds the prevailing wage thresholds, a local governmental unit or state agency also must obtain a prevailing wage rate determination under the following circumstances:

- when a completed facility is leased, purchased, lease-purchased or otherwise acquired by or dedicated to a public entity in lieu of the public entity contracting for the project,

- when one public entity does work for another public entity,

- when a *private* entity will construct a road, street, bridge, sanitary sewer or water main project and dedicate it to a local governmental unit or the state for its ownership or maintenance (except for some residential subdivisions).

For more information, visit the prevailing wage website: http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm. For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

State of Wisconsin
Department of Workforce Development
Equal Rights Division
Labor Standards Bureau

POST THE WHITE SHEET

As the public entity receiving this prevailing wage rate determination, YOU ARE REQUIRED by law to post the prevailing wage rate determination (i.e., white sheet) in at least one conspicuous and easily accessible place on the project site that is available to all construction workers. The white sheet must remain posted from the onset of the project until all construction labor on the project has been completed.
[*See,* Wis. Admin. Code §DWD 290.12(1)]

Posting the white sheet inside the general contractor's trailer does not meet this requirement. That placement is not available/accessible to all workers and is not a location over which you have control.

If you have questions about posting, please call (608)266-6861 and ask for prevailing wage intake.

Consolidated List of Debarred Contractors
Prepared and Issued By
State of Wisconsin - Department of Workforce Development

This list has been prepared in accordance with the provisions of §§66.0903(12) and 103.49(7), Wis. Stats., and Chapter DWD 294 of the Wisconsin Administrative Code. All contractors on this list were found to have committed a "debarable offense" related to certain labor standard provisions determined or established for a state or local public works project. No state agency, local governmental unit or owner or developer may knowingly solicit bids from, negotiate with or award any contracts to or approve or allow any subcontracts with a debarred contractor, including all divisions, affiliates or other organizational elements of such contractor that are engaged in construction business activities, until the debarment is terminated. The name of each debarred contractor must remain on this list for a period of three (3) years from the termination date indicated below. The contractor is, however, only "debarred" from the "effective date" through the "termination date" indicated for that contractor. Questions regarding this list should be addressed to Jim Chiolino, Equal Rights Division, P. O. Box 8928, Madison, WI 53708 or call (608) 266-3345. Deaf, hearing or speech-impaired callers may contact the department by calling its TDD number (608) 264-8752.

Name of Contractor	Address	Effective Date	Termination Date	Cause Code	Date of Violation(s)	Limitations/ Deviations
A-1 Duran Roofing & Insulation Services, Inc.	3700 N Fratney St Milwaukee, WI 53212 or 8095 NW 64th St Miami, FL 33166	11/1/14	10/31/17	1, 2 and 4	2011-2012	None
Abel, Mike	*See,* Abel Electric, Inc					
Abel Electric, Inc	3385 Belmar Rd Green Bay, WI 54313	9/1/12	8/31/15	1	2011	None
Alpha Electric, LLC	350 Business Park Dr Sun Prairie, WI 53590	8/1/15	7/31/18	4	2014	None
Arnie Christiansen Mason Contractors, LLC	2304 65th Dr Franksville, WI 53126	9/1/14	8/31/16	1, 2 and 4	2011	None
Atkins, Scott	*See,* Freedom Insulation, Inc					
Boecker, Roger	*See,* R-Way Pumping, Inc					
Brechtl, Mark G	*See,* Ecodec, Inc					
Cargill Heating and Air Conditioning Company, Inc	3049 Edgewater La La Crosse, WI 54603	3/1/14	2/28/17	1 and 2	2011	None

Name of Contractor	Address	Effective Date	Termination Date	Cause Code	Date of Violation(s)	Limitations/ Deviations
Castlerock Commercial Construction, Inc	PO Box 11699 Milwaukee, WI 53211-0699	2/1/12	1/31/15	1, 2 and 4	2009 & 2010	None
Christiansen, Andy	*See,* Arnie Christiansen Mason Contractors, LLC					
Christiansen, Arnold	*See,* Arnie Christiansen Mason Contractors, LLC					
Darnick, Gregory L	*See,* Darnick Trucking, LLC					
Darnick Trucking, LLC	W914 County Rd V Berlin, WI 54923	11/1/14	10/31/15	1, 2 and 4	2012 & 2013	None
Dem/Ex Group, Inc	805 S Adams St Manito, IL 61546	12/1/11	11/30/14	1 and 2	2010	None
Duran, Bernardo	*See,* A-1 Duran Roofing & Insulation Services and RRS2 Inc					
Ecodec, Inc	5106 Wintergreen Dr Madison, WI 53704	10/1/14	9/30/17	1	2011 & 2012	None
Fisher, Ed &/or Fisher, Rhonda	*See,* Dem/Ex Group, Inc					
Freedom Insulation, Inc	117925 219th Ave Chippewa Falls, WI 54729	9/1/11	8/31/14	1	2008-2010	None
Froode, Kathleen M.	*See,* Masonry Specialists II, LLC					
Galstad, Michael E (aka Michael Earl Galstad)	*See,* Cargill Heating and Air Conditioning Company, Inc					
Gjolaj, Ded	*See,* Horizon Bros Painting Corp					

Name of Contractor	Address	Effective Date	Termination Date	Cause Code	Date of Violation(s)	Limitations/ Deviations
Horizon Bros Painting Corp	1053 Kendra La Howell, MI 48843	10/1/14	9/30/16	4	2012	None
JT Roofing, Inc	350 Tower Dr Saukville, WI 53080	6/1/12	5/31/15	1, 2 and 4	2007 & 2008	None
Jinkins, Richard	*See,* Castlerock Commercial Construction, Inc					
John's Concrete	*See,* Wagner Companies, Inc., dba John's Concrete					
Kott, Joseph J.	*See,* Alpha Electric, LLC					
Masonry Specialists II, LLC	5109 Briarwood Ct Racine, WI 53402	8/1/15	7/31/18	4	2014	None
Mid-W Enterprises, Inc	1730 22nd Avenue Kenosha, WI 53140	6/1/15	5/31/17	1, 2 and 4	2013	None
Midwest Construction Co., Inc.	*See,* Mid-W Enterprises, Inc					
Oden, Cassie	*See,* A-1 Duran Roofing & Insulation Services and RRS2 Inc					
Ofstie, Darin	*See,* Precision Excavating and Grading, LLC					
Peret, Robert	*See,* A-1 Duran Roofing & Insulation Services and RRS2 Inc					

Name of Contractor	Address	Effective Date	Termination Date	Cause Code	Date of Violation(s)	Limitations/ Deviations
Precision Excavating and Grading, LLC or Precision Excavating Enterprises, LLC	2104 Pierce Saint Croix Rd Baldwin, WI 54002	5/1/11	4/30/14	1, 2 and 4	2006-2008	None
R-Way Pumping, Inc	3023 Lake Maria Rd Freeport, MN 56331	3/1/12	2/28/15	1, 2 and 4	2008	None
RRS2 Inc	133 N Jackson St, #427 Milwaukee, WI 53202 or 1313 N Franklin Pl, #805 Milwaukee, WI 53202	11/1/14	10/31/17	1, 2 and 4	2011-2012	None
Thull, Gerald T	*See,* JT Roofing, Inc					
Ventura, Robert	*See,* Mid-W Enterprises, Inc					
Wagner, Cory L.	*See,* Wagner Companies, Inc.					
Wagner Companies, Inc., dba John's Concrete	2063 Georgia Ave Racine, WI 53404	8/1/15	7/31/18	1	2013	None

Cause Code: 1 = Failure to Pay Straight Time 2 = Failure to Pay Overtime 3 = Kickback 4 = Payroll Records.

Department of Workforce Development
Equal Rights Division
P.O. Box 8928
Madison, WI 53708-8928
Telephone: (608) 266-6860
Fax: (608) 267-4592
TTY: (608) 264-8752

STATE OF WISCONSIN
DWD
Department of Workforce Development

Scott Walker, Governor
Reginald J. Newson, Secretary

PREVAILING WAGE – Contractors

Any public works project that has a total estimated project cost that equals or exceeds prevailing wage project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for most of these exclusions. The prevailing wage laws that apply to local governmental units and their contractors are §§66.0903 and 103.503, Wis. Stats. The prevailing wage laws that apply to state agencies and their contractors are §§103.49 and 103.503, Wis. Stats. The applicable administrative rules for all prevailing wage projects are DWD 290 and DWD 294, Wis. Adm. Code. These laws include provisions that apply to all contractors and subcontractors working on prevailing wage projects.

Any contractor or subcontractor working on a local governmental unit or state agency's public works project that equals or exceeds current prevailing wage project thresholds must do all of the following:

- Receive and review the project's prevailing wage rate determination (i.e., white sheet).
- Tell subcontractors the project is subject to state prevailing wage law and include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each subcontractor.
- Hire subcontractors who do *not* appear on the "Consolidated List of Debarred Contractors."
- Have a written substance abuse testing program in place that fulfills the requirements of §103.503, Wis. Stats., before commencing work on the project.

- Notify subcontractors that if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.

- Apply to DWD for subjourney wage rates prior to employing these individuals on the project.

- Receive and retain a completed Affidavit of Compliance from each subcontractor brought on to the project before providing final payment to those subcontractors.

- Submit a completed Affidavit of Compliance to the contractor who brought the subcontractor on to the project before receiving final payment for the project.

- Maintain payroll records for 3 years that comply with §§66.0903(10)(a) or 103.49(5)(a), Stats. and DWD 274.06.

- Respond to requests from DWD or the project owner to provide payroll records and/or respond to prevailing wage complaints filed by employees or third parties.

For more information, visit the prevailing wage website: http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm. For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

State of Wisconsin
Department of Workforce Development
Equal Rights Division

Disclosure of Ownership

The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d), 66.0904(10)(d) and 103.49(7)(d), Wisconsin Statutes.
The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.
Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1) (m), Wisconsin Statutes].

(1) On the date a contractor submits a bid to or completes negotiations with a state agency, local governmental unit, or developer, investor or owner on a project subject to Section 66.0903, 66.0904 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency, local governmental unit, or developer, investor or owner, the name of any "other construction business," which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.

(2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 66.0904(2), 103.49(2) and 103.50(2), Wisconsin Statutes.

(3) This form must ONLY be filed, with the state agency project owner, local governmental unit project owner, or developer, investor or owner of a publicly funded private construction project that will be awarding the contract, if **both (A) and (B) are met**.

(A) The contractor, or a shareholder, officer or partner of the contractor:
(1) Owns at least a 25% interest in the "other construction business," indicated below, on the date the contractor submits a bid or completes negotiations; or
(2) Has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.

(B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

Other Construction Business

Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code

I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.

Print the Name of Authorized Officer			
Authorized Officer Signature	Date Signed		
Corporation, Partnership or Sole Proprietorship Name			
Street Address or P O Box	City	State	Zip Code

If you have any questions call (608) 266-6861

State of Wisconsin
Department of Workforce Development
Equal Rights Division

Prime Contractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(c), 66.0904(7)(c) and 103.49(4r)(c) Wisconsin Statutes.
The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.
Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Agency** indicated below.

State Of))SS County Of)	Project Name	
	DWD Determination Number	Project Number (if applicable)
	Date Determination Issued	Date of Contract
	Awarding Agency	
	Date Work Completed	

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below and have recently completed all of the work required under the terms and conditions of a contract with the above-named awarding agency and make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(c), 66.0904(7)(c) or 103.49(4r)(c), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding agency.
- **I have** fully complied with all the wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding agency indicated above.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address	City	State	Zip Code	Telephone Number
Print Name of Authorized Officer			Date Signed	
Signature of Authorized Officer				

List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

If you have any questions call (608) 266-6861

State of Wisconsin
Department of Workforce Development
Equal Rights Division

Agent or Subcontractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(b), 66.0904(7)(b) and 103.49(4r)(9b), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.
Personal information you provide may be used for secondary purposes [Privacy Law, Section 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Contractor** indicated below.

State Of _____))SS County Of _____)	Project Name	
	DWD Determination Number	Project Number (if applicable)
	Date Determination Issued	Date of Subcontract
	Awarding Contractor	
	Date Work Completed	

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below. We have recently completed all of the work required under the terms and conditions of a subcontract with the above-named awarding contractor. We make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(b), 66.0904(7)(b) or 103.49(4r)(b), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding contractor.
- **I have** fully complied with the entire wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding contractor.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address or PO Box	City	State	Zip Code	Telephone Number ( )
Print Name of Authorized Officer			Date Signed	
Authorized Officer Signature				

List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		

If you have any questions call (608) 266-6861

State of Wisconsin
Department of Workforce Development
Equal Rights Division
Labor Standards Bureau

Request to Employ Subjourneyperson

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.
Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04(1)(m), Wisconsin Statutes].
The employer indicated below requests that the Department of Workforce Development (DWD) determine the prevailing wage rate(s) and related qualifications to enable such employer to use a subjourneyperson(s) on the following prevailing wage project, in accordance with the provisions of Section DWD 290.025, Wisconsin Administrative Code.

1. Name of Project Appearing on the Project Determination			
County	City, Village or Town		
DWD Project Determination Number	Project Number (if applicable)		
2. Job Classification(s) for which you request a subjourney rate (i.e., carpenter, electrician, plumber, etc.)			
a.	b.		
c.	d.		
3. Employer Name (Print)	Requester Name (Print)		
Address	City	State	Zip Code
Telephone Number ( )	Requester Title		
Email address (if you prefer to receive your response via email)	Fax Number (if you prefer to receive your response via fax) ( )		

READ CAREFULLY: I understand that this request is ONLY applicable to the project and job classification(s) listed above and that subjourney employees primarily work under the direction of and assist a skilled trade employee by frequently using the tools of a skilled trade and will NOT regularly perform the duties of a general laborer, heavy equipment operator or truck driver. If the subjourney employee regularly performs the work of a different trade or occupation, he/she will be compensated for such work at the applicable journeyperson prevailing wage rate. I agree to compensate subjourney employees in strict accordance with the directions received from the DWD.

Requester Signature	Date Signed

MAIL the completed request to:
EQUAL RIGHTS DIVISION, LABOR STANDARDS BUREAU
PO BOX 8928, MADISON WI 53708
OR
FAX the completed request to: (608) 267-4592 / **DO NOT e-mail your request.**
Call (608) 266-6861 for assistance in completing this form.

ADDITIONAL GENERAL PREVAILING WAGE LAW INFORMATION

(This document updated July 2015)

NOTE: Recent prevailing wage law changes enacted by the 2015-17 Budget Bill (2015 Wisconsin Act 55) do not go into effect until calendar year 2017.

For prevailing wage laws and frequently asked questions, refer to the prevailing wage website at: http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
Non-applicability	All public entities	Prevailing wage rates do not apply to minor service or maintenance work, warranty work, or work under a supply and installation contract.
Non-applicability: Minor service or maintenance work	Local governmental units & Contractors	Minor service or maintenance work means a project of public works that is limited to • minor crack filling, chip or slurry sealing, or other minor pavement patching, not including overlays, that has a projected life span of no longer than 5 years or that is performed for a TOWN and is not funded under §86.31, regardless of projected life span; • the depositing of gravel on an existing gravel road applied solely to maintain the road; • road shoulder maintenance; • cleaning of drainage or sewer ditches or structures; or • any other limited, minor work on public facilities or equipment that is routinely performed to prevent breakdown or deterioration.
Non-applicability: Minor service or maintenance work	State agencies	Minor service or maintenance work means a project of public works that is limited to • minor crack filling, chip or slurry sealing, or other minor pavement patching, not including overlays, that has a projected life span of no longer than 5 years; • cleaning of drainage or sewer ditches or structures; or • any other limited, minor work on public facilities or equipment that is routinely performed to prevent breakdown or deterioration.
Non-applicability: Supply & installation contract	All public entities	Supply and installation contract means a contract under which the material is installed by means of simple fasteners or connectors such as screws or nuts and bolts and no other work is performed on the site of the project of public works, and the total labor cost to install the material does not exceed 20 percent of the total cost of the contract.
Non-applicability: Work which a contractor or individual donates to a public entity	All public entities	Prevailing wage laws §§66.0903 & 103.49, Stats., do not apply to work performed on a project of public works for which the local governmental unit or the state or the state agency contracting for the project is not required to compensate any contractor, subcontractor, contractor's or subcontractor's agent, or individual for performing the work.

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
Non-applicability: Residential	All public entities	A prevailing wage rate determination is not required for the erection, construction, repair, remodeling, or demolition of a residential property containing 2 dwelling units or less.
Non-applicability: Residential subdivision infrastructure	All public entities	A prevailing wage rate determination is not required for a road, street, bridge, sanitary sewer, or water main project that is a part of a development in which at least 90 percent of the lots contain or will contain 2 dwelling units or less, as determined by the local governmental unit at the time of approval of the development, and that, on completion, is acquired by, or dedicated to, a local governmental unit (including under §236.13(2), Stats.), or the state, for ownership or maintenance by the local governmental unit or the state.
Electronic certified payroll record	Contractors	The requirement that every contractor on a prevailing wage project submit to DWD monthly a certified record of employees who worked on the project and that DWD post these certified records on its internet website was discontinued effective July 1, 2011. Contractors are still required to maintain payroll records and provide them upon request from DWD &/or the project owner.
Payroll record inspection request by any person	Contractors & Complainants	Any person may request DWD to inspect the payroll records of any contractor working on a prevailing wage project. On receipt of such a request, the contractor must submit to DWD a certified record of its payroll records, other than personally identifiable information relating to an employee of the contractor, for no longer than a 4-week period. DWD may request records from a contractor under this provision no more than once per calendar quarter for each project of public works on which the contractor is performing work. The department may not charge a requester a fee for obtaining that information. DWD must make these certified records available for public inspection.
Statewide uniformity	Local govern-mental units	A local governmental unit may not enact & administer a prevailing wage ordinance/provision for public works or publicly funded private construction projects. Any extant laws to that effect are void.
Substance Abuse Testing	Contractors & Workers	Before commencing work on a prevailing wage project, a contractor must have a written substance abuse testing program in place that complies with §103.503, Wis. Stats. No employee may use, possess, attempt to possess, distribute, deliver, or be under the influence of a drug or under the influence of alcohol while performing work on a prevailing wage project.

Topic	Who's affected	Brief description of requirement under §66.0903 or §103.49
Covered employees	Truck drivers & Other workers & Contractors	A laborer, worker, mechanic, or truck driver who is employed to process, manufacture, pick up, or deliver materials or products from a commercial establishment that has a fixed place of business from which the establishment supplies processed or manufactured materials or products or from a facility that is not dedicated exclusively, or nearly so, to a project of public works is NOT entitled to receive the prevailing wage rate UNLESS any of the following applies: 1) the laborer, worker, mechanic, or truck driver is employed to go to the source of mineral aggregate such as sand, gravel, or stone and deliver that mineral aggregate to the site of a project of public works by depositing the material directly in final place, from the transporting vehicle or through spreaders from the transporting vehicle. 2) the laborer, worker, mechanic, or truck driver is employed to go to the site of a project of public works, pick up excavated material or spoil from the site of the project, and transport that excavated material or spoil away from the site of the project.

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 omision 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.

CONTRACT:	PROJECT(S):	FEDERAL ID(S):
20160112004	1661-05-78	WISC 2016002
	1661-05-80	N/A
	1661-05-88	N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SECTION 0001 Contract Items					
0010	201.0105 Clearing	147.000 STA		.		.
0020	201.0205 Grubbing	147.000 STA		.		.
0030	203.0100 Removing Small Pipe Culverts	28.000 EACH		.		.
0040	203.0200 Removing Old Structure (station) 01. 205+56 WB (2 66-Inch CPRC)	LUMP	LUMP			.
0050	203.0200 Removing Old Structure (station) 02. 232+78 EB	LUMP	LUMP			.
0060	203.0200 Removing Old Structure (station) 03. 233+51 EB (Box Culvert Unknown ID)	LUMP	LUMP			.
0070	203.0200 Removing Old Structure (station) 04. 240+27 EB	LUMP	LUMP			.
0080	203.0200 Removing Old Structure (station) 05. 51+35	LUMP	LUMP			.
0090	203.0200 Removing Old Structure (station) 06. 262+45 EB (C-12-154)	LUMP	LUMP			.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0100	203.0600.S Removing Old Structure Over Waterway With Minimal Debris (station) 01. 207+19	LUMP	LUMP			.
0110	204.0100 Removing Pavement	3,976.000 SY		.		.
0120	204.0150 Removing Curb & Gutter	5,691.000 LF		.		.
0130	204.0155 Removing Concrete Sidewalk	816.000 SY		.		.
0140	204.0165 Removing Guardrail	1,283.000 LF		.		.
0150	204.0210 Removing Manholes	7.000 EACH		.		.
0160	204.0215 Removing Catch Basins	4.000 EACH		.		.
0170	204.0220 Removing Inlets	9.000 EACH		.		.
0180	204.0225 Removing Septic Tanks	1.000 EACH		.		.
0190	204.0230 Removing Building (station) 01. 118+14 GV	LUMP	LUMP			.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0200	204.0235 Removing Buildings (parcel) 01. 21	LUMP	LUMP			.
0210	204.0240 Site Clearance (parcel) 01. 21	LUMP	LUMP			.
0220	204.0240 Site Clearance (parcel) 02. 50	LUMP	LUMP			.
0230	204.0245 Removing Storm Sewer (size) 01. 12-Inch	54.000 LF		.		.
0240	204.0245 Removing Storm Sewer (size) 02. 18-Inch	309.000 LF		.		.
0250	204.0245 Removing Storm Sewer (size) 03. 24-Inch	291.000 LF		.		.
0260	204.0245 Removing Storm Sewer (size) 04. 36-Inch	106.000 LF		.		.
0270	204.0265 Abandoning Wells	1.000 EACH		.		.
0280	204.0270 Abandoning Culvert Pipes	7.000 EACH		.		.
0290	204.9165.S Removing (item description) 01. Modular Block Retaining Wall	2,650.000 SF		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0300	205.0100 Excavation Common	193,058.000 CY		.		.
0310	205.0200 Excavation Rock	11,872.000 CY		.		.
0320	206.1000 Excavation for Structures Bridges (structure) 01. B-12-0184	LUMP	LUMP			.
0330	206.1000 Excavation for Structures Bridges (structure) 02. B-12-93	LUMP	LUMP			.
0340	206.2000 Excavation for Structures Culverts (structure) 01. B-12-0187	LUMP	LUMP			.
0350	206.2000 Excavation for Structures Culverts (structure) 02. B-12-0188	LUMP	LUMP			.
0360	206.2000 Excavation for Structures Culverts (structure) 03. C-12-0167	LUMP	LUMP			.
0370	208.0100 Borrow	224,693.000 CY		.		.
0380	208.1100 Select Borrow	6,028.000 CY		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0390	209.0200.S Backfill Controlled Low Strength	202.000 CY		.		.
0400	210.0100 Backfill Structure	9,750.000 CY		.		.
0410	213.0100 Finishing Roadway (project) 01. 1661-05-78	1.000 EACH		.		.
0420	305.0110 Base Aggregate Dense 3/4-Inch	14,103.000 TON		.		.
0430	305.0120 Base Aggregate Dense 1 1/4-Inch	103,011.000 TON		.		.
0440	311.0115 Breaker Run	920.000 CY		.		.
0450	312.0110 Select Crushed Material	33,916.000 TON		.		.
0460	415.0085 Concrete Pavement 8 1/2-Inch	144,866.000 SY		.		.
0470	415.0210 Concrete Pavement Gaps	6.000 EACH		.		.
0480	415.0410 Concrete Pavement Approach Slab	451.000 SY		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0490	416.0160 Concrete Driveway 6-Inch	160.000 SY		.		.
0500	416.0260 Concrete Driveway HES 6-Inch	132.000 SY		.		.
0510	416.0610 Drilled Tie Bars	304.000 EACH		.		.
0520	416.0620 Drilled Dowel Bars	43.000 EACH		.		.
0530	416.1010 Concrete Surface Drains	40.200 CY		.		.
0540	440.4410 Incentive IRI Ride	22,894.000 DOL	1.00000		22894.00	
0550	455.0105 Asphaltic Material PG58-28	252.000 TON		.		.
0560	455.0605 Tack Coat	1,303.000 GAL		.		.
0570	460.1101 HMA Pavement Type E-1	4,575.000 TON		.		.
0580	460.2000 Incentive Density HMA Pavement	2,930.000 DOL	1.00000		2930.00	

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0590	465.0105 Asphaltic Surface	372.000 TON		.		.
0600	465.0120 Asphaltic Surface Driveways and Field Entrances	1,052.000 TON		.		.
0610	465.0125 Asphaltic Surface Temporary	1,345.000 TON		.		.
0620	465.0450 Asphaltic Intersection Rumble Strips	81.000 SY		.		.
0630	502.0100 Concrete Masonry Bridges	1,140.500 CY		.		.
0640	502.3200 Protective Surface Treatment	1,365.000 SY		.		.
0650	502.3210 Pigmented Surface Sealer	210.000 SY		.		.
0660	502.5010 Masonry Anchors Type L No. 6 Bars	108.000 EACH		.		.
0670	504.0100 Concrete Masonry Culverts	1,657.000 CY		.		.
0680	505.0400 Bar Steel Reinforcement HS Structures	205,900.000 LB		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0690	505.0600 Bar Steel Reinforcement HS Coated Structures	153,930.000 LB		.		.
0700	505.0800.S Bar Steel Reinforcement HS Stainless Structures	3,880.000 LB		.		.
0710	505.0906 Bar Couplers No. 6	2.000 EACH		.		.
0720	511.1200 Temporary Shoring (structure) 01. B-12-0184	670.000 SF		.		.
0730	511.1200 Temporary Shoring (structure) 02. B-12-0187	1,225.000 SF		.		.
0740	511.1200 Temporary Shoring (structure) 03. B-12-0188	5,530.000 SF		.		.
0750	511.2200 Temporary Shoring Left in Place (structure) 01. B-12-0184	180.000 SF		.		.
0760	516.0500 Rubberized Membrane Waterproofing	306.000 SY		.		.
0770	520.1015 Apron Endwalls for Culvert Pipe 15-Inch	8.000 EACH		.		.
0780	520.1018 Apron Endwalls for Culvert Pipe 18-Inch	6.000 EACH		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0790	520.3315 Culvert Pipe Class III-A 15-Inch	116.000 LF		.		.
0800	520.3318 Culvert Pipe Class III-A 18-Inch	178.000 LF		.		.
0810	520.4024 Culvert Pipe Temporary 24-Inch	446.000 LF		.		.
0820	520.4030 Culvert Pipe Temporary 30-Inch	80.000 LF		.		.
0830	520.4036 Culvert Pipe Temporary 36-Inch	12.000 LF		.		.
0840	520.8000 Concrete Collars for Pipe	1.000 EACH		.		.
0850	522.0118 Culvert Pipe Reinforced Concrete Class III 18-Inch	76.000 LF		.		.
0860	522.0124 Culvert Pipe Reinforced Concrete Class III 24-Inch	76.000 LF		.		.
0870	522.0130 Culvert Pipe Reinforced Concrete Class III 30-Inch	244.000 LF		.		.
0880	522.0136 Culvert Pipe Reinforced Concrete Class III 36-Inch	224.000 LF		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0890	522.0142 Culvert Pipe Reinforced Concrete Class III 42-Inch	142.000 LF		.		.
0900	522.0172 Culvert Pipe Reinforced Concrete Class III 72-Inch	54.000 LF		.		.
0910	522.0318 Culvert Pipe Reinforced Concrete Class IV 18-Inch	100.000 LF		.		.
0920	522.0348 Culvert Pipe Reinforced Concrete Class IV 48-Inch	340.000 LF		.		.
0930	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	8.000 EACH		.		.
0940	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	27.000 EACH		.		.
0950	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	8.000 EACH		.		.
0960	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	3.000 EACH		.		.
0970	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	6.000 EACH		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0980	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	2.000 EACH		.		.
0990	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	2.000 EACH		.		.
1000	522.1072 Apron Endwalls for Culvert Pipe Reinforced Concrete 72-Inch	2.000 EACH		.		.
1010	523.0158 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 58x91-Inch	282.000 LF		.		.
1020	523.0419 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	148.000 LF		.		.
1030	523.0519 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	4.000 EACH		.		.
1040	523.0558 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 58x91-Inch	2.000 EACH		.		.
1050	524.0642 Apron Endwalls for Culvert Pipe Salvaged 42-Inch	1.000 EACH		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1060	550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch	2,240.000 LF		.		.
1070	550.2124 Piling CIP Concrete 12 3/4 X 0.25-Inch	1,385.000 LF		.		.
1080	601.0407 Concrete Curb & Gutter 18-Inch Type D	42.000 LF		.		.
1090	601.0409 Concrete Curb & Gutter 30-Inch Type A	10.000 LF		.		.
1100	601.0411 Concrete Curb & Gutter 30-Inch Type D	1,242.000 LF		.		.
1110	601.0413 Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	65.000 LF		.		.
1120	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	19,765.000 LF		.		.
1130	601.0557 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	140.000 LF		.		.
1140	601.0580 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	775.000 LF		.		.
1150	602.0405 Concrete Sidewalk 4-Inch	75,261.000 SF		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1160	602.0415 Concrete Sidewalk 6-Inch	3,251.000 SF		.		.
1170	602.0505 Curb Ramp Detectable Warning Field Yellow	32.000 SF		.		.
1180	603.8000 Concrete Barrier Temporary Precast Delivered	2,100.000 LF		.		.
1190	603.8125 Concrete Barrier Temporary Precast Installed	2,100.000 LF		.		.
1200	606.0200 Riprap Medium	2,078.000 CY		.		.
1210	606.0300 Riprap Heavy	5,196.000 CY		.		.
1220	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	1,890.000 LF		.		.
1230	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	1,672.000 LF		.		.
1240	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	306.000 LF		.		.
1250	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	330.000 LF		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1260	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	102.000 LF		.		.
1270	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	1,178.000 LF		.		.
1280	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	995.000 LF		.		.
1290	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	557.000 LF		.		.
1300	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	38.000 LF		.		.
1310	609.0136 Relaid Storm Sewer 36-Inch	197.000 LF		.		.
1320	609.0142 Relaid Storm Sewer 42-Inch	304.000 LF		.		.
1330	611.0530 Manhole Covers Type J	1.000 EACH		.		.
1340	611.0612 Inlet Covers Type C	1.000 EACH		.		.
1350	611.0624 Inlet Covers Type H	3.000 EACH		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1360	611.0627 Inlet Covers Type HM	91.000 EACH		.		.
1370	611.0636 Inlet Covers Type HM-S	9.000 EACH		.		.
1380	611.0639 Inlet Covers Type H-S	3.000 EACH		.		.
1390	611.0642 Inlet Covers Type MS	30.000 EACH		.		.
1400	611.0652 Inlet Covers Type T	3.000 EACH		.		.
1410	611.2004 Manholes 4-FT Diameter	3.000 EACH		.		.
1420	611.2005 Manholes 5-FT Diameter	5.000 EACH		.		.
1430	611.2006 Manholes 6-FT Diameter	3.000 EACH		.		.
1440	611.3004 Inlets 4-FT Diameter	11.000 EACH		.		.
1450	611.3225 Inlets 2x2.5-FT	3.000 EACH		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1460	611.3230 Inlets 2x3-FT	87.000 EACH		.		.
1470	611.3901 Inlets Median 1 Grate	20.000 EACH		.		.
1480	611.3902 Inlets Median 2 Grate	5.000 EACH		.		.
1490	611.8110 Adjusting Manhole Covers	1.000 EACH		.		.
1500	611.8120.S Cover Plates Temporary	2.000 EACH		.		.
1510	611.9710 Salvaged Inlet Covers	4.000 EACH		.		.
1520	612.0106 Pipe Underdrain 6-Inch	3,257.000 LF		.		.
1530	612.0206 Pipe Underdrain Unperforated 6-Inch	180.000 LF		.		.
1540	612.0406 Pipe Underdrain Wrapped 6-Inch	980.000 LF		.		.
1550	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	4.000 EACH		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1560	612.0902.S Insulation Board Polystyrene (inch) 01. 2-Inch	71.000 SY		.		.
1570	614.0150 Anchor Assemblies for Steel Plate Beam Guard	4.000 EACH		.		.
1580	614.0396 Guardrail Mow Strip Asphalt	600.000 SY		.		.
1590	614.0905 Crash Cushions Temporary	12.000 EACH		.		.
1600	614.2300 MGS Guardrail 3	538.000 LF		.		.
1610	614.2500 MGS Thrie Beam Transition	156.000 LF		.		.
1620	614.2610 MGS Guardrail Terminal EAT	6.000 EACH		.		.
1630	614.2620 MGS Guardrail Terminal Type 2	2.000 EACH		.		.
1640	616.0205 Fence Chain Link 5-FT	150.000 LF		.		.
1650	616.0700.S Fence Safety	201.000 LF		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1660	618.0100 Maintenance And Repair of Haul Roads (project) 01. 1661-05-78	1.000 EACH		.		.
1670	619.1000 Mobilization	1.000 EACH		.		.
1680	620.0100 Concrete Corrugated Median	8,764.000 SF		.		.
1690	620.0300 Concrete Median Sloped Nose	1,061.000 SF		.		.
1700	624.0100 Water	3,779.000 MGAL		.		.
1710	625.0500 Salvaged Topsoil	199,478.000 SY		.		.
1720	627.0200 Mulching	172,322.000 SY		.		.
1730	628.1504 Silt Fence	20,127.000 LF		.		.
1740	628.1520 Silt Fence Maintenance	40,254.000 LF		.		.
1750	628.1905 Mobilizations Erosion Control	8.000 EACH		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1760	628.1910 Mobilizations Emergency Erosion Control	16.000 EACH		.		.
1770	628.1920 Cleaning Sediment Basins	28.000 CY		.		.
1780	628.2004 Erosion Mat Class I Type B	21,609.000 SY		.		.
1790	628.2008 Erosion Mat Urban Class I Type B	45,883.000 SY		.		.
1800	628.2027 Erosion Mat Class II Type C	39,950.000 SY		.		.
1810	628.2037 Erosion Mat Class III Type C	3,109.000 SY		.		.
1820	628.6510 Soil Stabilizer Type B	2.000 ACRE		.		.
1830	628.7005 Inlet Protection Type A	124.000 EACH		.		.
1840	628.7010 Inlet Protection Type B	18.000 EACH		.		.
1850	628.7015 Inlet Protection Type C	106.000 EACH		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1860	628.7504 Temporary Ditch Checks	1,224.000 LF		.		.
1870	628.7555 Culvert Pipe Checks	17.000 EACH		.		.
1880	628.7560 Tracking Pads	8.000 EACH		.		.
1890	628.7560.S Stone or Rock Ditch Checks	240.000 CY		.		.
1900	629.0210 Fertilizer Type B	183.900 CWT		.		.
1910	630.0120 Seeding Mixture No. 20	4,005.000 LB		.		.
1920	630.0130 Seeding Mixture No. 30	1,776.000 LB		.		.
1930	630.0140 Seeding Mixture No. 40	828.000 LB		.		.
1940	630.0200 Seeding Temporary	8,517.000 LB		.		.
1950	630.0300 Seeding Borrow Pit	700.000 LB		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1960	633.0100 Delineator Posts Steel	2.000 EACH		.		.
1970	633.0500 Delineator Reflectors	2.000 EACH		.		.
1980	633.5100 Markers Row	199.000 EACH		.		.
1990	633.5200 Markers Culvert End	79.000 EACH		.		.
2000	634.0612 Posts Wood 4x6-Inch X 12-FT	3.000 EACH		.		.
2010	634.0614 Posts Wood 4x6-Inch X 14-FT	59.000 EACH		.		.
2020	634.0616 Posts Wood 4x6-Inch X 16-FT	81.000 EACH		.		.
2030	634.0618 Posts Wood 4x6-Inch X 18-FT	43.000 EACH		.		.
2040	634.0620 Posts Wood 4x6-Inch X 20-FT	9.000 EACH		.		.
2050	634.0622 Posts Wood 4x6-Inch X 22-FT	2.000 EACH		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2060	634.0624 Posts Wood 4x6-Inch X 24-FT	2.000 EACH		.		.
2070	634.0805 Posts Tubular Steel 2x2-Inch X 5-FT	3.000 EACH		.		.
2080	634.0811 Posts Tubular Steel 2x2-Inch X 11-FT	12.000 EACH		.		.
2090	634.0814 Posts Tubular Steel 2x2-Inch X 14-FT	12.000 EACH		.		.
2100	637.1220 Signs Type I Reflective SH	45.000 SF		.		.
2110	637.2210 Signs Type II Reflective H	2,362.390 SF		.		.
2120	637.2220 Signs Type II Reflective SH	6.750 SF		.		.
2130	637.2230 Signs Type II Reflective F	147.750 SF		.		.
2140	638.2102 Moving Signs Type II	24.000 EACH		.		.
2150	638.2602 Removing Signs Type II	96.000 EACH		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2160	638.3000 Removing Small Sign Supports	108.000 EACH		.		.
2170	638.4000 Moving Small Sign Supports	4.000 EACH		.		.
2180	641.8100 Overhead Sign Support (structure) 01. (S-12-0012)	LUMP	LUMP			.
2190	641.8100 Overhead Sign Support (structure) 02. (S-12-0013)	LUMP	LUMP			.
2200	642.5201 Field Office Type C	1.000 EACH		.		.
2210	643.0100 Traffic Control (project) 01. 1661-01-78	1.000 EACH		.		.
2220	643.0300 Traffic Control Drums	120,745.000 DAY		.		.
2230	643.0420 Traffic Control Barricades Type III	17,512.000 DAY		.		.
2240	643.0500 Traffic Control Flexible Tubular Marker Posts	760.000 EACH		.		.
2250	643.0600 Traffic Control Flexible Tubular Marker Bases	760.000 EACH		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2260	643.0705 Traffic Control Warning Lights Type A	22,918.000 DAY		.		.
2270	643.0715 Traffic Control Warning Lights Type C	10,998.000 DAY		.		.
2280	643.0800 Traffic Control Arrow Boards	263.000 DAY		.		.
2290	643.0900 Traffic Control Signs	30,050.000 DAY		.		.
2300	643.1050 Traffic Control Signs PCMS	729.000 DAY		.		.
2310	645.0105 Geotextile Fabric Type C	2,335.000 SY		.		.
2320	645.0111 Geotextile Fabric Type DF Schedule A	1,447.000 SY		.		.
2330	645.0120 Geotextile Fabric Type HR	14,053.000 SY		.		.
2340	645.0140 Geotextile Fabric Type SAS	1,456.000 SY		.		.
2350	646.0106 Pavement Marking Epoxy 4-Inch	80,496.000 LF		.		.

CONTRACT: 20160112004
PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2360	646.0126 Pavement Marking Epoxy 8-Inch	9,733.000 LF		.		.
2370	646.0600 Removing Pavement Markings	7,593.000 LF		.		.
2380	646.0805.S Pavement Marking Outfall	4.000 EACH		.		.
2390	647.0166 Pavement Marking Arrows Epoxy Type 2	70.000 EACH		.		.
2400	647.0176 Pavement Marking Arrows Epoxy Type 3	4.000 EACH		.		.
2410	647.0356 Pavement Marking Words Epoxy	40.000 EACH		.		.
2420	647.0456 Pavement Marking Curb Epoxy	324.000 LF		.		.
2430	647.0556 Pavement Marking Stop Line Epoxy 12-Inch	10.000 LF		.		.
2440	647.0566 Pavement Marking Stop Line Epoxy 18-Inch	121.000 LF		.		.
2450	647.0606 Pavement Marking Island Nose Epoxy	13.000 EACH		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2460	647.0656 Pavement Marking Parking Stall Epoxy	162.000 LF		.		.
2470	647.0726 Pavement Marking Diagonal Epoxy 12-Inch	412.000 LF		.		.
2480	649.0100 Temporary Pavement Marking 4-Inch	71,500.000 LF		.		.
2490	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	83,100.000 LF		.		.
2500	649.0701 Temporary Pavement Marking 8-Inch	345.000 LF		.		.
2510	649.0801 Temporary Pavement Marking Removable Tape 8-Inch	2,200.000 LF		.		.
2520	649.1100 Temporary Pavement Marking Stop Line 18-Inch	36.000 LF		.		.
2530	649.1200 Temporary Pavement Marking Stop Line Removable Tape 18-Inch	74.000 LF		.		.
2540	649.1400 Temporary Pavement Marking Stop Line Removable Tape 24-Inch	24.000 LF		.		.
2550	649.1500 Temporary Pavement Marking Diagonal 12-Inch	200.000 LF		.		.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2560	649.1700 Temporary Pavement Marking Arrows	6.000 EACH		.		.
2570	649.1800 Temporary Pavement Marking Arrows Removable Tape	2.000 EACH		.		.
2580	649.1900 Temporary Pavement Marking Words	2.000 EACH		.		.
2590	649.2000 Temporary Pavement Marking Words Removable Tape	1.000 EACH		.		.
2600	650.4000 Construction Staking Storm Sewer	136.000 EACH		.		.
2610	650.4500 Construction Staking Subgrade	43,267.000 LF		.		.
2620	650.5000 Construction Staking Base	9,787.000 LF		.		.
2630	650.5500 Construction Staking Curb Gutter and Curb & Gutter	1,524.000 LF		.		.
2640	650.6000 Construction Staking Pipe Culverts	67.000 EACH		.		.
2650	650.6500 Construction Staking Structure Layout (structure) 01. B-12-0184	LUMP	LUMP			.

CONTRACT: 20160112004

PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2660	650.6500 Construction Staking Structure Layout (structure) 02. B-12-0187	LUMP	LUMP			.
2670	650.6500 Construction Staking Structure Layout (structure) 03. B-12-0188	LUMP	LUMP			.
2680	650.6500 Construction Staking Structure Layout (structure) 04. C-12-0167	LUMP	LUMP			.
2690	650.6500 Construction Staking Structure Layout (structure) 05. R-12-50	LUMP	LUMP			.
2700	650.6500 Construction Staking Structure Layout (structure) 06. (S-12-0012)	LUMP	LUMP			.
2710	650.6500 Construction Staking Structure Layout (structure) 07. (S-12-0013)	LUMP	LUMP			.
2720	650.7000 Construction Staking Concrete Pavement	33,480.000 LF		.		.
2730	650.9910 Construction Staking Supplemental Control (project) 01. 1661-05-78	LUMP	LUMP			.
2740	650.9920 Construction Staking Slope Stakes	41,757.000 LF		.		.

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PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2750	661.0100 Temporary Traffic Signals for Bridges (structure) 01. B-12-093	LUMP	LUMP			.
2760	661.0300 Generators	42.000 DAY	.			.
2770	690.0150 Sawing Asphalt	3,269.000 LF	.			.
2780	690.0250 Sawing Concrete	1,408.000 LF	.			.
2790	715.0415 Incentive Strength Concrete Pavement	43,460.000 DOL	1.00000		43460.00	
2800	715.0502 Incentive Strength Concrete Structures	16,776.000 DOL	1.00000		16776.00	
2810	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,100.000 HRS	5.00000		10500.00	
2820	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	6,480.000 HRS	5.00000		32400.00	
2830	SPV.0035 Special 01. Temporary Sediment Basin	56.000 CY	.			.
2840	SPV.0060 Special 01. Inlet Covers Type Dwy	1.000 EACH	.			.

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PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2850	SPV.0060 Special 02. Inlet Covers Type 12SP	3.000 EACH		.		.
2860	SPV.0060 Special 03. Traffic Control Vertical Panel	32.000 EACH		.		.
2870	SPV.0060 Special 04. Utility Line Opening	5.000 EACH		.		.
2880	SPV.0060 Special 08. Sanitary Sewer Connection To Existing	3.000 EACH		.		.
2890	SPV.0060 Special 10. Manhole - Replace/Install With Chimney Seal	7.000 EACH		.		.
2900	SPV.0060 Special 11. Sanitary Sewer Lateral Replace	1.000 EACH		.		.
2910	SPV.0060 Special 13. Water Main Connection To Existing	1.000 EACH		.		.
2920	SPV.0060 Special 14. Remove Existing Fire Hydrant	2.000 EACH		.		.
2930	SPV.0060 Special 15. Remove Existing Valve	3.000 EACH		.		.
2940	SPV.0060 Special 16. Fire Hydrant 6-Inch (W/6" Hydrant Lead)	3.000 EACH		.		.

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PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88
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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
2950	SPV.0060 Special 17. Water Main Gate Valve 6-Inch	2.000 EACH		.		.
2960	SPV.0060 Special 18. Water Main Gate Valve 8-Inch	4.000 EACH		.		.
2970	SPV.0060 Special 21. Water Service Replace 1-Inch	1.000 EACH		.		.
2980	SPV.0090 Special 01. Concrete Curb & Gutter 6-Inch Sloped 20-Inch Type G	177.000 LF		.		.
2990	SPV.0090 Special 02. Concrete Curb & Gutter HES 6-Inch Sloped 36-Inch Type A	145.000 LF		.		.
3000	SPV.0090 Special 03. Concrete Curb & Gutter HES 30-Inch Type D	73.000 LF		.		.
3010	SPV.0090 Special 05. Sanitary Sewer SDR 35 PVC 8-Inch	1,052.000 LF		.		.
3020	SPV.0090 Special 08. Water Main DR 18 PVC 8-Inch	1,262.000 LF		.		.
3030	SPV.0090 Special 09. Casing Pipe Reinforced Concrete Class III 18-Inch	80.000 LF		.		.

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PROJECT(S): 1661-05-78, 1661-05-80, 1661-05-88

FEDERAL ID(S): WISC 2016002, N/A, N/A

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
3040	SPV.0090 Special 10. Casing Pipe Reinforced Concrete Class III 30-Inch	158.000 LF		.		.
3050	SPV.0090 Special 11. Post Construction Televising Sanitary Sewer	1,052.000 LF		.		.
3060	SPV.0090 Special 12. Post Construction Televising Casing Pipe	158.000 LF		.		.
3070	SPV.0105 Special 01. Crawford County Storage Shed	LUMP	LUMP			.
3080	SPV.0105 Special 02. Concrete Pavement Joint Layout	LUMP	LUMP			.
3090	SPV.0165 Special 01. Wall Modular Block Mechanically Stabilized Earth LRFD **P**	940.000 SF		.		.
3100	SPV.0180 Special 01. Geogrid Reinforcement	41,061.000 SY		.		.
	SECTION 0001 TOTAL					.
	TOTAL BID					.

PLEASE ATTACH SCHEDULE OF ITEMS HERE