

HIGHWAY WORK PROPOSALWisconsin Department of Transportation
DT1502 10/2010 s.66.29(7) Wis. Stats.

Proposal Number:

42

<u>COUNTY</u>	<u>STATE PROJECT ID</u>	<u>FEDERAL PROJECT ID</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Bayfield	8160-04-64		Ashland - Bayfield Superior Avenue to 7th Street	STH 13

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

Proposal Guaranty Required, \$ 75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Due Date: December 13, 2016 Time (Local Time): 9:00 AM	Firm Name, Address, City, State, Zip Code
Contract Completion Time June 30, 2017	SAMPLE NOT FOR BIDDING PURPOSES
Assigned Disadvantaged Business Enterprise Goal 0%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)_____
(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 Removing old structures, granular backfill, base aggregate, culvert pipe replacements, storm sewer, culvert pipe liners, cleaning pipes, asphaltic surface, concrete masonry endwalls, riprap, slope flattening, temporary widening.	
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 ExpressTM web site.
 2. Use ExpediteTM software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of ExpediteTM software and the Bid ExpressTM 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 ExpressTM 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 ExpediteTM 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 ExpressTM web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the ExpediteTM 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 ExpediteTM 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 ExpediteTM 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 ExpediteTM generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the ExpediteTM generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.
 3. The diskette or CD ROM is not submitted at the time and place the department designates.

C Waiver of Electronic Submittal

- (1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.
- (2) Submit a schedule of items on paper conforming to [section 102](#) of the standard specifications. The department charges the bidder a \$75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."
- (3) In addition to the reasons specified in [section 102](#) of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
 2. The bidder fails to pay the \$75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the \$75.
 3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.
- (4) In addition to the reasons specified in [section 102](#) of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

DT1303 1/2006

Wisconsin Department of Transportation

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

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

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

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

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

PRINCIPAL

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

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

(Company Name)

(Signature and Title)

NOTARY FOR PRINCIPAL

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

(Signature of Attorney-in-Fact)

NOTARY FOR SURETY

(Date)

State of Wisconsin)
) ss.
_____ County)

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

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

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

CERTIFICATE OF ANNUAL BID BOND

DT1305 8/2003

Wisconsin Department of Transportation

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

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

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

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

(Signature of Authorized Contractor Representative)

(Date)

March 2010

LIST OF SUBCONTRACTORS

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

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

[illegible]

DECEMBER 2000

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

Instructions for Certification

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

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

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

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

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

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 8160-04-64 Ashland – Bayfield, Superior Avenue to 7th Street, STH 13, Bayfield 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, 2017 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20160607)

2. Scope of Work.

The work under this contract shall consist of culvert pipe replacements, pipe liners, cleaning pipes, apron endwalls, concrete masonry endwalls, placing granular fill and base aggregate, asphaltic surfacing, slope flattening, riprap, erosion control, landscaping, 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 10 calendar days before the approved start date.

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

Slopes 10 feet in length or greater shall be finished within 7 days of initial slope construction.

Concrete Masonry Endwalls shall be constructed within 7 calendar days after the culvert pipe has been replaced. Beveled Edge Concrete Masonry Endwalls shall be constructed within 7 calendar days after liners have been installed.

Northern Long-eared Bat (*Myotis septentrionalis*)

Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees. Roosts have been identified within 150 feet of the project limits. The species and all active roosts are protected by the Federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

To avoid adverse impacts upon the NLEBs, no Clearing is allowed between June 1 and July 31, both dates inclusive.

If the required Clearing is not completed by May 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 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.

4. Traffic.

STH 13 and connecting side roads will be open to two-way traffic during night time and weekend hours. The contractor may restrict traffic to a single lane within construction work zones. This lane shall be kept free of all equipment and materials, and the minimum width including shoulders, shall be 15 feet. Single lane restrictions will only be allowed from Monday at 6:00 AM until Friday at 12:00 PM each week during daytime hours only, and will be controlled by flaggers. Flagger operations shall be according to the Standard Detail Drawing "Traffic Control for Lane Closure (Suitable for Moving Operations)" and the ATSSA Flagger Handbook. Single lane closures shall be restricted to 1000 feet. No more than 4 simultaneous single lane closures along STH 13 can occur at once. The single lane closures shall cause no more than a 15 minute delay.

A short-term detour will be required to replace deep culverts on STH 13 between CTH J and 7th Street. Allow the load limits to be removed from CTH J and CTH I before closing STH 13, and complete all work within shoulder points by June 16, 2017. The detour must be removed by Friday at 12:00 PM, and may be reinstated on Monday at 6:00 AM for a maximum of three consecutive weeks.

Maintain a driving surface of asphaltic pavement or base material on all segments of STH 13 within the project limits open to through traffic. During non-working hours, STH 13 and all connecting side roads shall be in a condition to safely handle two lanes of traffic. All gravel patches from culvert replacements shall be paved and reopened by noon on Fridays.

Maintain access to all residential, field, and commercial entrances at all times, unless written permission can be obtained (by the contractor) from the property owner 48 hours in advance of closing the access.

No equipment or materials shall be parked within 18 feet of the edge of the shoulder unless approved by the engineer. Equipment or material not being used during the actual performance of work shall not be parked or stored within 30 feet of the edge of traveled way.

Furnish the engineer with a traffic control plan for the one-lane operation. Do not implement the one-lane operation without the approval from the engineer.

Passing another moving vehicle is prohibited within 500 feet of a culvert pipe replacement work zone. Use signs to designate these no-passing zones and to warn traffic during the time when no-passing zone and centerline pavement markings are not in place on intermediate or final surfaces open to through traffic. Such signs shall be in place prior to the time when the pre-existing pavement marking is obliterated and shall be removed following placement of centerline pavement markings. Signs may be placed on portable supports unless the sign will be used continuously at the same location for seven or more days. Signing will be used as shown on the plan.

Coordinate schedules, including any flagging operations, with local emergency services to assure that emergency personnel are aware of local roadways affected by the construction work.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Full ramp closures	7 calendar days
Detours	7 calendar days

Closure type without height, weight, or width restrictions (available width, all lanes in one direction >16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
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 (20160607)

5. **Holiday Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 13 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/special event periods:

- From noon Friday, May 26, 2017 to 6:00 AM Tuesday, May 30, 2017 for Memorial Day;
- From noon Friday, June 30, 2017 to 6:00 AM Wednesday, July 5, 2017 for Independence Day;
- From noon Friday, September 1, 2017 to 6:00 AM Tuesday, September 5, 2017 for Labor Day;
- From 6:00 PM Wednesday, October 4 to 6:00 AM Monday, October 9, 2017 for Bayfield Apple Festival.

107-005 (20050502)

6. **Utilities.**

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

107-065 (20080501)

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

Bayfield Electric Cooperative has an underground electrical crossing on STH 13 near Station 253+10'N'. There is overhead electric on the west side of STH 13 to about Station 355+40'N' where it crosses STH 13 and turns north and east away from the highway. There are several overhead crossings between the Onion River and Old (South) Kennedy Road. The overhead electric crossing at McCulloch Road is scheduled to be bored under

STH 13 on the north side of McCulloch Road during the summer of 2016. No conflicts are anticipated.

CenturyLink has underground fiber optic and copper cables along the entire project corridor, and many facilities are located in the old railroad grade. An overhead crossing at Station 456+90'N' will not be in conflict. CenturyLink will apply for a permit to bore copper cable 15-20 feet below the stream bed and under existing pipes at Station 208+34'N'/208+49'N'. The company is also planning to relocate copper cable at least 5 feet deep below existing pipes at Station 568+56'N'/568+68'N'. CenturyLink is requesting that copper cables be worked around for pipe replacements at Stations 585+88'N', 591+49'N', and 594+78'N'. The cables do not need to be supported if excavations are made according to the plan. See special provisions for Utility Line Opening item and conditions for its use.

Contact the utility representative listed on plan at least 4 working days prior to exposing any cables so CenturyLink can have a person on site for the work. No conflicts are anticipated, but if an unknown conflict occurs allow a 9 day coordination and construction completion time for any necessary relocation.

Charter Communications has underground fiber optic, underground coaxial cables, and overhead fiber optic and coaxial cables on Xcel Energy poles in various locations along the project corridor. Underground fiber optic cable follows along the west side of STH 13 from Station 148+00'N' to a crossing at Station 202+40'N'. It passes approximately 49 feet RT at Station 208+37'N'/208+49'N' pipes, and continues along the easterly side of STH 13 to approximately Station 575+25'N'. At this point, the fiber optic and coaxial cables cross STH 13 on Xcel Energy poles and remain overhead along westerly side of STH 13 to the end of the project.

There is an underground coaxial cable crossing STH 13 near Station 500+10'N' and continuing along the westerly side of STH 13 to a crossing near Station 512+75'N'. The coaxial cable then runs parallel with the fiber optic line to the crossing on Xcel Energy poles described above and continues overhead to the end of the project.

The contractor shall provide details of proposed temporary cofferdam installations at the preconstruction meeting for the following pipe locations: Station 304+76'N' RT, 312+56'N' RT, 315+23'N' RT, 317+72'N' RT, and 488+39'N' RT. Charter is prepared to relocate at cofferdam locations should it be deemed necessary at the preconstruction meeting. Relocation will require up to 14 calendar days at any location.

The contractor shall work around underground cables when pipe removal and/or installation is below an existing cable(s). Charter has indicated that these cables are self supporting if excavations are made according to the plans. Coordinate with utility representative at least 3 working days prior to digging at the following pipe locations so a utility representative will be on site for a 'fiber watch': Station 304+76'N', 312+56'N', 346+42'N', 379+40'N', 401+23'N', 419+54'N', 459+21'N', 461+00'N', 483+23'N', 485+64'N', 488+39'N', and 568+60'N' to 568+90'N'. When relocation is required allow

14 calendar days for Charter to complete work at any location. Backfill material may not contain rocks or debris for a minimum of 12 inches around any Charter cable.

City of Bayfield Public Works and Pikes Bay Sanitary District have formed a sanitary commission named the Greater Bayfield Wastewater Treatment Plant Commission. The Greater Bayfield Wastewater Treatment Plant Commission is the owner of a 12-inch sanitary sewer force main along the westerly project corridor from Old San Road to 9th Street. This sewer main crosses STH 13 near Old San Road. The city has an 8-inch sanitary and a 6-inch water main along the north side of STH 13 from Payne Avenue (Old Military Rd) to the end of the project.

Notify the utility 1 week prior to work beginning at the locations below. A utility representative must be on-site when work is being done around the 12-inch force main. The utility representative will have equipment necessary to locate the force main tracer wire. The 12-inch sanitary sewer force main is directly below the culverts to be replaced at Station 568+56'N', 568+64'N', and 591+49'N'. At these locations, the force main is insulated with insulation board. If the insulation board is damaged during excavation for the culvert trench, then replace with polystyrene insulation board supplied by the City of Bayfield. See special provisions for Install City Furnished Polystyrene Board item.

At Station 585+88'N', the 12-inch sanitary sewer force main is above the 24-inch steel culvert pipe replacement. The item for Utility Line Opening will be required, and in this case only, the contractor will be required to support the force main. 4" x 4" posts will be supplied by the City of Bayfield for this operation. The exposed force main will require re-insulation around the exposed force main during backfilling operations. The utility representative will be required to inspect and to approve the supporting method, insulation board placement, excavation, backfilling, and compaction around the sanitary force main. All insulation board will be supplied by the City of Bayfield.

At Station 558+09'N' and 575+93'N', beveled edge concrete masonry endwalls will be installed. It is not expected that the force main will be in conflict during the construction of the masonry endwalls at these locations. At Station 558+09'N', the force main is approximately 8 feet down. At Station 575+93'N' the force main is approximately 17 feet left of the end of the culvert near the same elevation as the culvert. Use caution when excavating for the endwalls.

Northern Natural Gas Company has a 3-inch high pressure steel pipeline crossing STH 13 approximately 400 feet north of CTH J near Station 569+90'N', and follows along the west side of project corridor from CTH J south about 1000 feet. The pipeline is approximately five feet deep where it crosses under STH 13. No conflicts are anticipated.

Norvado has an underground fiber optic cable beginning at Burlager Road on the west side of STH 13 and extending northward. It crosses STH 13 near Station 345+00'N', and follows along the east side of STH 13 to Station 496+20'N' where the cable crosses STH 13 and follows along the west side of STH 13 until it reaches Station 595+50'N', where it extends northward on the east side of 9th Street.

The contractor shall provide details of proposed temporary cofferdam installations at the preconstruction meeting for the following locations: Station 208+43'N' LT, 312+56'N' LT, 315+23'N' LT, and 317+71'N' LT. Norvado has located fiber optic cable 85 inches below existing grade 50 feet left of Station 208+43'N', 27 inches below existing grade 47 feet left of Station 312+56'N', 40 inches below existing grade 40 feet left of Station 315+23'N', and 95 inches below existing grade 38 feet left of Station 317+71'N'. All locations were gathered using GPS and electronic depth soundings, and as such are approximate locations.

Norvado is prepared to relocate at cofferdam locations should it be deemed necessary at the preconstruction meeting. Relocation will require 15 working days. At all other locations where a Norvado facility is present, coordinate with utility representative at least 1 week prior to digging within 10 feet of cable, so a representative can be on site.

Pikes Bay Sanitary District (PBSD) has sanitary facilities along the project corridor from Port Superior Road to 7th Street in Bayfield. PBSD has three sanitary force mains crossing STH 13 at Station 565+40'N', 575+60'N', and 584+75'N'. No conflicts are anticipated.

Washburn Municipal Water & Sewer Utility has a 8-inch water main in the project corridor near the intersection of STH 13 and Superior Avenue. There is also a 10-inch sanitary sewer line that connects to 8-inch and 4-inch lines in separate manholes near the same intersection. No conflicts are anticipated.

Xcel Energy (electric distribution) has overhead electric lines from Superior Avenue to Howell Road primarily on easterly side of STH 13 with several overhead crossings. There are overhead lines on westerly side of STH 13 from just north of Ski Hill Road to 7th Street with several overhead crossings. There are underground electric facilities in close proximity to pipes at Station 449+79'N', 459+21'N', and 461+00'N'.

Use extreme caution when working near underground electric lines for pipe replacements at Stations 459+21'N' and 461+00'N'. Xcel Energy will be responsible for adequately supporting exposed lines during construction. There are overhead power poles that may require a 'pole hold' by Xcel personnel for pipe replacements at Stations 77+85'N' and 111+84'N'. Notify Xcel Energy 14 calendar days in advance of digging at the above locations.

Xcel Energy (gas) has two gas mains on the easterly side of STH 13 from 9th Street in Bayfield to a substation near Station 570+50'N' RT. A single main continues from substation to approximately Station 565+40'N' where it crosses to the westerly side of STH 13. The main continues southerly to approximately Station 474+70'N' where it crosses and remains on easterly side of STH 13 to approximately Station 451+60'N' where it terminates. In Bayfield, there is a gas main on easterly side between 9th Street and 7th Street.

Use extreme caution when working near gas lines for pipe replacements at Stations 483+23'N', 485+64'N', 488+39'N', 568+60'N' to 568+95'N', 585+88'N', 591+49'N', and 594+78'N'. Xcel Energy will be responsible for adequately supporting exposed gas lines during construction. Notify Xcel Energy 14 calendar days in advance of digging at the above locations. Do not park or operate heavy equipment over gas lines. See special provisions for Utility Line Opening item and conditions for its use.

7. Property Marks - Protecting and Restoring.

Replace standard spec 107.11.3 (1) with the following:

Protect and carefully preserve all known property and survey marks, land monuments, and right-of-way monuments and marker posts. Notify the engineer of the nature and location of these monuments and markers. Do not disturb or destroy monuments or markers until the engineer has arranged for their referencing or perpetuation.

Reset or replace, to the required standard, any property and survey marks, land monuments, and right-of-way monuments and marker posts that fall outside the construction limits that are shifted, lost or damaged by the contractor during construction operations, as determined by the engineer. If the contractor fails to restore the disturbed monuments or markers within a reasonable time, the department may, upon 48 hours written notice, restore the disturbed monuments or markers. The department will deduct restoration costs from payments due the contractor under the contract.

8. Environmental Protection, Aquatic Exotic Species Control.

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

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

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels prior to being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Use the following inspection and removal procedures (guidelines from the Wisconsin Department of Natural Resources http://dnr.wi.gov/topic/fishing/documents/vhs/disinfection_protocols.pdf for disinfection:

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

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

107-055 (20130615)

9. Environmental Concerns.

Supplement standard spec 107.20 with the following:

Install silt fence prior to construction, and install it at the toe of proposed or existing slopes when working adjacent to wetland areas and waterways. When slope or channel disturbance occurs, take immediate action in placement of any required topsoil, fertilizer, seed, mulch and erosion mat in order to minimize the period of exposure to possible erosion.

An eagle nest was observed in the vicinity of the proposed culvert pipe work at Station 221+41'N' and Station 360+27'N'. Project construction management personnel will monitor resident eagles by observing the eagles when construction activities are being performed within a 330-ft radius of the nest from April 1 to June 1. If the nest is within 330 feet of the road, no staging of equipment or idling machinery is permitted within this buffer zone. If eggs or chicks are present, no work will be conducted until one hour after sunrise, and work must cease one hour before sunset until April 15. If eaglets are present, no work will be conducted in the buffer zone during the fledgling period of June 1 through June 30.

The department will apply for a Federal Fish and Wildlife Permit.

10. Sensitive Work Zones.

Two recorded archaeology sites and one historical site have been identified within the project corridor. Two sites identified as 47BA261 (Washburn Ranger Station archaeology site) and AHI#17117 (Washburn Ranger Station historic building) are located in the City of Washburn. Both sites are near STH 13 in an area which has no culvert pipes, and as such there is no construction within approximately one-half mile of these sites.

Site 47BA0392 (Pikes Quarry and Dock) is an archaeology site located near Whiting Road and on both sides of STH 13. There is a pipe culvert replacement approximately 200 feet south of the site and a replacement approximately 900 feet north of the site. It is expected that this site will be avoided during construction. However, if undertaking includes ground disturbance beyond the existing base of slope to the right (southeast) of the highway or beyond the ditch to the left (north/west) of the highway, then a department supplied qualified archaeologist must monitor the construction-related ground disturbing activities. Provide notice to the Bureau of Technical Services – Environmental Process and Document Section (BTS-EPDS), contact Jim Becker (608) 261-0137 or Lynn Cloud (608) 266-0099, at least two weeks before commencement of any ground disturbing activities that requires an archaeologist.

None of these recorded sites shall be used for borrow or waste disposal. The site areas not currently capped by asphalt/concrete shall not be used for the staging of personnel, equipment and/or supplies.

11. 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 Amy Adrihan at (715) 392-7972.
107-054 (20080901)

12. Coordination with Businesses and Residents.

The contractor shall arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week prior to the start of work under this contract and no further meetings will be required unless directed by the engineer. The contractor shall arrange for a suitable location for the meeting(s) that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for the meeting(s). The contractor shall schedule the meeting(s) with at least two weeks' prior notice to the engineer to allow for these notifications.

108-060 (20141107)

13. Removing Apron Endwalls, Item 204.9060.S.01.

A Description

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

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Apron Endwalls by each individual apron endwall, acceptably completed.

E Payment

Supplement standard spec 204.5 to include the following:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Apron Endwalls	Each

204-025 (20041005)

14. 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://wisconsin.dot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/rdwy/default.aspx>

A.2 Contractor Testing for Small Quantities

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

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

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

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

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

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

B Materials

B.1 Quality Control Plan

- (1) Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not place base before the engineer reviews and comments on the plan. Construct the project as that plan provides.

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

B.2 Personnel

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

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

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

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

B.3 Laboratory

- (1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Management Section

3502 Kinsman Blvd.

Madison, WI 53704

Telephone: (608) 246-5388

<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/appr-prod/qual-labs.aspx>

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 two 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 two 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.

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15. Asphaltic Surface, Item 465.0105.

Supplement standard spec 465.2 as follows:

Under the Asphaltic Surface bid item, furnish asphaltic mixture meeting or exceeding the requirements specified for "4 MT 58-34 S" for the upper layers, and "3 MT 58-28 S" for the lower layers.

16. Cleaning Culvert Pipes, Item 520.8700.

Replace standard spec 520.3.6(1) with the following:

Clean the existing culvert pipes of all dirt, vegetation and woody debris. Dispose of all materials as specified in the ECIP. Under no circumstances may waste be deposited in wetlands.

Water generated from the cleaning process must be trapped in a temporary sediment basin as shown in the plan details, pumped into a vacuum truck, and disposed of at a site designated in the ECIP.

Replace standard spec 520.5(7) with the following:

Payment for Cleaning Culvert Pipes is full compensation for cleaning the culvert pipe and for disposing of waste material, including but not limited to, all material removed from the pipe, all water and sediment trapped in basin, and the temporary sediment basin components.

The installation of the temporary sediment basin will be paid for with designated pay items as shown in the plan.

17. General Culvert Pipe Liners Requirements.

All culvert pipe with proposed liners shall be lined with the maximum reasonable size liner. The following table displays liner locations with minimum and recommended inside diameter (I.D.) sizes. The recommended liner sizes shall only vary from the table if field conditions make the liner size impractical. Any changes to the recommended liner size shall be approved by the engineer. Present any changes to the liner sizes at the preconstruction conference.

Pipe Station	Minimum Size I.D. Liner Required	Recommended Liner I.D.	Existing Culvert Size
37+94'N'	-	30.0"	36" CPCS
55+83'N'	-	59.0"	72" CPCS
96+09'N'	-	44.3"	54" CPCS
96+23'N'	-	44.3"	54" CPCS
162+58'N'	20.6"	20.7"	24" CPCS
218+10'N'	-	26.2"	30" CPCS
315+23'N'	-	39.4"	48" CPCS
317+72'N'	-	39.4"	48" CPCS
317+85'N'	-	39.4"	48" CPCS
340+63'N'	-	26.2"	30" CPCS
342+10'N'	-	30.0"	36" CPCS
346+42'N'	-	30.0"	36" CPCS
348+98'N'	26.2"	26.2"	30" CPCS
358+75'N'	-	35.5"	42" CPCS
360+51'N'	-	26.2"	30" CPCS
364+93'N'	-	35.5"	42" CPCS
367+81'N'	-	26.2"	30" CPCS
370+88'N'	31.9"	35.5"	42" CPCS
387+00'N'	-	20.7"	24" CPCS
427+93'N'	20.6"	20.7"	24" CPCS
438+55'N'	26.2"	26.2"	30" CPCS
499+11'N'	30.0"	30.0"	36" CPCS
543+84'N'	18.7"	20.7"	24" CPCS
558+09'N'	20.6"	20.7"	24" CPCS
575+93'N'	20.6"	20.7"	24" CPCS
594+78'N'	20.7"	20.7"	24" CPCS
598+50'N'	30.0"	30.0"	36" CPCS

Direct burial of culvert liners are required at some locations. The contractor shall be responsible to verify that the selected liners shall be approved by the manufacturer's recommendations for direct bury. No liner joints shall be present outside of the existing culvert pipe. If a joint is necessary, a concrete collar shall be poured around the joint and

be considered incidental to the culvert pipe liner. Construction shall be according to standard spec 520.3.

Coordinate with engineer to verify liner lengths. Liner lengths may need to be lengthened at Beveled Edge Concrete Masonry Endwall locations, depending on construction methods of the endwall. Some installations of liners may require lining the pipe with short pipe sections to stay on right-of-way. It is the responsibility of the contractor to obtain easements if necessary for installing long sections of pipe.

18. Culvert Pipe Liners, 24-Inch, Item 520.9700.S.01; 30-Inch, Item 520.9700.S.02; 36-Inch, Item 520.9700.S.03; 42-Inch, Item 520.9700.S.04; 48-Inch, Item 520.9700.S.05; 54-Inch, Item 520.9700.S.06; 72-Inch, Item 520.9700.S.07; Cleaning Culvert Pipes for Liner Verification, Item 520.9750.S.

A Description

This special provision describes providing and pressure grouting culvert pipe liners for circular culverts.

B Materials

B.1 Flexible Pipe Liner

Use liners with a Manning's coefficient value published on the department's approved products list. Upon delivery provide manufacturer certificates of compliance certifying that the liners conform to the following:

Pipe Type	ASTM Designation	ASTM D3350 Resin
High Density Polyethylene (HDPE)		
Profile Wall Pipe	F894	345463C
Solid Wall Pipe	F714	345463C
Polyvinylchloride (PVC)	F949	---

B.2 Grout

Provide grout consisting of:

One part of type I or II portland cement

Three parts sand conforming to standard spec 501.2.5.

Water to achieve required fluidity.

Alternatively the contractor may use an engineer-approved commercial cellular concrete grout conforming to the following:

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

C Construction

C.1 General

As soon as possible after contract execution, survey existing culvert pipes to determine which culverts need cleaning in order to verify the required liner diameter and length. Notify the engineer before cleaning to confirm payment under the Cleaning Culvert Pipes for Liner Verification bid item.

Coordinate with the engineer to field verify culvert diameter and length, shape, material, and condition before ordering the liners.

Obtain easements if necessary for installing long sections of pipe.

C.2 Excavating and Cleaning

Before inserting the liner, clean and dry the pipe. Excavate and pump as required to remove debris and other materials that would interfere with the placement or support of the inserted liner. Dispose of and replace unserviceable endwalls as the engineer directs.

C.3 Placing Liners

Unload liners using slings and boom-type trucks or equivalents. Do not use chains or wire rope to handle liners and do not dump liners from the trucks when unloading.

Connect joints conforming to the manufacturer's recommendations.

C.4 Pressure Grouting

After the liner is in place, fill the area between the original pipe and the liner completely with grout to provide uniform space between the liner and the original pipe. Block, grout in lifts, or otherwise secure liners to prevent floatation associated while grouting.

Use a grout plant that is capable of accurately measuring, proportioning, mixing, and discharging by volume and at discharge pressures the liner manufacturer recommends. Do not exceed manufacturer-specified maximum pressures. The contractor may place grout in lifts to prevent exceeding maximum allowable pressures.

C.4 Site Restoration

Replace pipe sections damaged or collapsed during installation or grouting operations. Restore the grade to its original or improved cross section. Dispose of waste material.

D Measurement

The department will measure the Culvert Pipe Liners bid items by the linear foot measured in place for each culvert location, acceptably completed.

The department will measure Cleaning Culvert Pipes for Liner Verification as each culvert, acceptably cleaned. The department will only measure culverts the engineer approves 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
520.9700.S.01	Culvert Pipe Liners 24-Inch	LF
520.9700.S.02	Culvert Pipe Liners 30-Inch	LF
520.9700.S.03	Culvert Pipe Liners 36-Inch	LF
520.9700.S.04	Culvert Pipe Liners 42-Inch	LF
520.9700.S.05	Culvert Pipe Liners 48-Inch	LF
520.9700.S.06	Culvert Pipe Liners 54-Inch	LF
520.9700.S.07	Culvert Pipe Liners 72-Inch	LF
520.9750.S	Cleaning Culvert Pipes for Liner Verification	EACH

Payment for the Culvert Pipe Liners bid items is full compensation for providing pipe liners; obtaining easements; for excavation and pumping; for cleaning the existing pipe before liner installation; for pressure grouting; for replacing contractor-damaged pipe and endwalls; and for restoring the grade and disposing of waste materials.

The department will pay the contractor \$150 per cubic yard for grout required in excess of 110 percent of the theoretical quantity required to fill the space between the inside diameter of the existing pipe and the outside diameter of the liner.

Payment for Cleaning Culvert Pipes for Liner Verification is full compensation for cleaning required to verify liner length and diameter; for excavation and pumping; and for disposing of waste material.

The department will pay separately for replacing unserviceable endwalls not rendered unserviceable by contractor operations under the appropriate contract endwall bid item, or absent the appropriate item as extra work.

19. Culvert Pipe Corrugated Steel.

Replace standard spec 521.5(2) with the following:

- (2) Payment for the Culvert Pipe Corrugated Steel bid items and the Pipe Arch Corrugated Steel bid items is full compensation for providing, hauling, and placing the pipe, including cutting, trimming and galvanizing damaged pipe ends; for steel bands of 2-foot width as specified in the plan details; for furnishing all excavating, including foundation, or bed, and any associated dewatering; for placing granular backfill for granular foundation and around the pipe as the plan shows; for providing and backfilling with native materials; for maintaining temporary drainage; and for replacing damaged installations.

20. Cover Plates Temporary, Item 611.8120.S.

A Description

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

B Materials

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

C (Vacant)

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	Each

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

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

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21. Removing Signs Type II.

This work shall be according to the pertinent requirements of standard spec 638 and as provided here.

Type II signs on county highways are Bayfield County property. All Bayfield County signs removed, and not identified for reuse, shall be separated, plywood from aluminum signs, and the aluminum signs shall be palletized for shipment and handling with a forklift. Contact Paul Johanick, Bayfield County Highway Department Patrol Superintendent at (715) 373-6116 at least three business days prior to delivery to coordinate shipment to the following location:

- Bayfield County Highway Shop, 311 S. First Ave. E., Washburn, WI 54891

22. Beveled Edge Concrete Masonry Endwall, Item SPV.0035.01.

A Description

This special provision describes work according to the plan, the pertinent requirements of standard spec 504, and as hereinafter provided.

B (Vacant)

C Construction

Refer to standard spec 504 and the construction detail in the project plan.

D Measurement

The department will measure Beveled Edge Concrete Masonry Endwall by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.01	Beveled Edge Concrete Masonry Endwall	CY

Payment is full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the contract work.

23. Riprap Installation Sta. 379+40'N' RT, Item SPV.0035.02.

A Description

This special provision describes furnishing and placing riprap, at a remote location that may not be accessible by conventional equipment, according to the plan, the standard specifications, and as hereinafter provided.

B Materials

Furnish riprap medium according to the pertinent provisions of standard spec 606.2.1(1) and 606.2.1(2).

C Construction

Construct the riprap as shown in the plan and as directed by the engineer. Hand placement or other unusual method may be required to complete the installation of riprap at this location. All methods of construction and restoration of the site will be subject to approval by the engineer.

D Measurement

The department will measure Riprap Installation Sta. 379+40'N' RT by the cubic yard, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.02	Riprap Installation Sta. 379+40'N' RT	CY

Payment is full compensation for placement of riprap at this location, including any hand placement or other methods, for clearing and grubbing required as needed in the riprap area, for restoration of disturbed slopes to equal or better than existing vegetation, and for furnishing all other incidentals required to complete the contract work. Payment also includes cutting, removing, and disposing of the existing discharge culvert pipe as shown on the plan or as directed by the engineer.

Payment for Geotextile Fabric Type HR will be measured and paid for under the pertinent item provided in the contract.

24. Cleaning Culvert Pipes Minimal, Item SPV.0060.01.

A Description

This special provision describes work required for cleaning culvert pipes according to standard spec 205 and 520 and as hereinafter provided.

B (Vacant)**C Construction**

Haul materials removed offsite to an upland waste site. Do not dispose of material within the surrounding wetlands or low areas. Use a containment system if necessary.

Minimal Cleaning—Remove vegetation and built up sedimentation from just inside the culvert, or what is reachable with a hand shovel, to a radius of 10-15 feet from the end of the culvert or along the ditch line or channel. Some hand work will be required to remove material from the culvert end or apron end wall area. Estimated removal of material is 5 to 10 cubic yards at each location.

D Measurement

The department will measure Cleaning Culvert Pipes Minimal as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Cleaning Culvert Pipes Minimal	EACH

Payment is full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the contract work.

25. Temporary Water Passage, Item SPV.0060.02.

A Description

This special provision describes building a temporary water passage according to the plan, the standard specifications, and as hereinafter provided.

B (Vacant)

C Construction

Cover the inlet with a steel plate cover acceptable to the engineer. Install the pipe underdrain according to the plan, and according to the requirements specified in standard spec 612.2. The 4-inch diameter hole will be constructed using a method acceptable to the engineer.

After removal of fill for temporary slope widening, excavate carefully around the inlet to expose the pipe underdrain. Remove the pipe from the inlet, mortar the 4-inch diameter hole, and remove the steel plate cover.

D Measurement

The department will measure Temporary Water Passage as each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Temporary Water Passage	EACH

Payment is full compensation for furnishing and installing steel plate cover; performing all excavation; constructing the 4-inch diameter hole; furnishing and installing 4-inch pipe underdrain; removing and disposing of the pipe underdrain; and for mortaring the 4-inch diameter hole.

26. Cofferdams Special, Item SPV.0060.03.

A Description

Perform work under this bid item according to the pertinent requirements of standard spec 206 and as hereinafter provided.

B (Vacant)

C Construction

Cofferdams will not be allowed to be constructed from loose fill materials. Leaving existing ground in place to be removed when work is nearly completed would be acceptable. Do not disturb utilities when constructing and removing cofferdams.

D Measurement

The department will measure Cofferdams Special by each individual cofferdam, acceptably completed.

E Payment

Supplement standard spec 204.5 to include the following:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Cofferdams Special	EACH

Payment is full compensation for furnishing, installing, and removing all materials.

27. Utility Line Opening (ULO), Item SPV.0060.04.**A Description**

This special provision describes excavating, backfilling, and compacting around utility lines, as shown in the plans, directed by the engineer, or as directed by the utility representative, and as hereinafter provided. Work for this item also includes, but is not limited to:

- Excavation to expose the utility line.
- Backfilling.
- Compacting the backfill material around the existing utility lines.
- All labor, tools, equipment, transportation, and incidentals to perform the work.

B (Vacant)**C Construction**

Perform the utility line opening as soon as possible and at least 10 days in advance of proposed construction to allow any conflicts to be resolved with minimal disruption. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening shall be called for to locate multiple utilities. A trench of up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended utility is included under the bid item of utility line opening.

All construction shall be done in such a manner that the utility line in question is not damaged and the safety of the workers is not compromised.

Coordinate with and obtain the approval of the engineer for all utility line openings. Notify the utility engineers or their representatives of this work a minimum of three days prior to the work so they may be present when work is being completed.

D Measurement

The department will measure Utility Line Opening (ULO) by the each unit, acceptably completed. Utilities that are within 6 feet of each other at a potential conflict location shall be measured as one utility line opening.

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 (ULO)	EACH

Payment is full compensation for the excavation required to expose the utility line(s), backfilling and compacting around the utility line(s), and all work, materials, labor, tools, equipment, restoration and incidentals necessary to complete this item of work.

Existing pavement and small culvert pipe removals shall not be considered part of or paid for under Utility Line Opening, but shall be considered separate and paid for separately as removal items.

28. Cured-In-Place Pipe Lining (CIPP), 30-Inch, Item SPV.0090.01.

A Description

This special provision describes the reconstruction of an existing storm sewer or culvert by the installation of a resin-impregnated flexible tube which is formed to the original conduit so as to not damage the existing sanitary sewer system or the resin-impregnated flexible tube. When cured, the “cured-in-place pipe” (CIPP) will be continuous and tight fitting.

This specification references ASTM F1216 (Rehabilitation of Pipelines by the Inversion and Curing of a Resin-Impregnated Tube), ASTM F1743 (Rehabilitation of Pipelines by Pulled-In-Place Installation of a Cured-In-Place Thermosetting Resin Pipe), ASTM D5813 (Cured-In-Place, Thermosetting Resin Sewer Pipe), and ASTM D790 (Test Methods for Flexural Properties of Non-reinforced Plastics) which are made a part thereof by such reference and be the latest edition and revision thereof. In case of conflicting requirements between this specification and these referenced documents, this specification will govern.

The process (materials, methods, workmanship) must be proven through previous successful installations to an extent and nature satisfactory to the department and commensurate with the size of the project under the proposed contract. Clearly identify the contractor, the proposed method of reconstruction, and the product manufacturer’s name.

B Materials

Tube - The tube shall meet the requirements of ASTM F1216 or ASTM F1743. Construct the tube to withstand installation pressures, have sufficient strength to bridge missing pipe, stretch to fit irregular pipe sections, and invert smoothly around bends.

The wet out tubes shall have a uniform thickness that when compressed at installation pressures will meet or exceed the design thickness.

The tube shall be constructed to a size that when installed will tightly fit the internal circumference and length of the original pipe. Allowance shall be made for circumferential stretching during inversion. Overlapped layers in longitudinal seams that cause lumps in the final product shall not be utilized.

The outside layer of the tube (before wet out) shall be coated with an impermeable, flexible membrane that will contain the resin and facilitate monitoring of resin saturation during the resin impregnated (wet out) procedure.

The tube shall be homogeneous across the entire wall thickness containing no intermediate or encapsulated Elastomeric layers. No material included in the tube may cause delamination in the cured CIPP. No dry or unsaturated layers shall be evident.

The wall color of the interior pipe surface of CIPP after installation shall be a light reflective color so that a clear detailed examination with closed circuit television inspection equipment could be made.

Seams in the tube shall be stronger than the unseamed material. Where the length requires the joining, the joint shall not be perpendicular to the long axis but spirally formed and sewn.

Mark the outside of the tube for distance at regular intervals along its entire length, not to exceed five feet. Such markings shall include the manufacturer's name or identifying symbol. The tubes must be manufactured in the USA.

Resin - The resin system shall be a corrosion resistant polyester, vinyl ester, or epoxy and catalyst system that when properly cured within the tube composite meets the requirements of ASTM F1216 and ASTM F1743, the physical properties herein, and those which are to be utilized in the design of the CIPP for this project. The resin shall produce CIPP which will comply with the structural and chemical resistance requirements of this specification.

Structural Requirements

Submit design calculations that meet the requirements of the manufacturer and that are designed as per ASTM F1216, Appendix XI. The CIPP design shall assume no bonding to the original pipe wall. The Long-Term Flexural Modulus to be used in design shall be verified by independent testing (such as the Trenchless Technology Center at Louisiana Tech University). Such Long-Term Modulus shall not exceed 50% of the short-term values given in Section 5.3. CIPP thickness shall not be less than that which is computed from the DR's given in Table #1, for resin systems with physical properties shown.

Uniformly bond the layers of the cured CIPP. It shall not be possible to separate any two layers with a probe or point of a knife blade so that the layers separate cleanly or the probe or knife blade moves freely between the layers. If separation of the layers occurs during testing of field samples, new samples will be cut from the work. Any reoccurrence may cause rejection of the work.

The cured pipe material (CIPP) shall conform to the structural properties, as listed below:

Table 1: Design Requirements

MINIMUM PHYSICAL PROPERTIES			
	Test Method	Resin per ASTM F1216	Resin with 400,000 psi Properties
Modulus of Elasticity	ASTM D790	250,000	400,000 psi
Flexural Stress	ASTM D790	4,500	4,500 psi
MH010042- MH020083		0.18 in. (4.5 mm)	0.18 in. (4.5 mm)

Testing Requirements

Chemical Resistance - The CIPP shall meet the chemical resistance requirements of ASTM F1216, Appendix X2. CIPP samples for testing shall be of tube and resin similar to that proposed for actual construction. It is required that CIPP samples with and without plastic coating meet these chemical testing requirements.

Hydraulic Capacity - Overall, the Hydraulic profile shall be maintained as large as possible. The CIPP shall have a minimum of the full flow capacity of the original pipe before rehabilitation. Calculated capacities may be derived using a commonly accepted roughness coefficient for the existing pipe material taking into consideration its age and condition.

CIPP Field Samples - When requested by the department, submit test results from previous field installations in the USA of the same resin system and tube materials as proposed for the actual installation. These test results must verify that the CIPP physical properties specified have been achieved in previous field applications.

C Construction

The department will locate and designate all manhole / inlet access points open and accessible for the work, and provide rights of access to these points. If a street must be closed to traffic because of the orientation of the sewer, the department will institute the actions necessary to do this for the mutually agreed time period. The contractor shall give the department a 24-hour notice if a street requires to be closed to traffic. The department will also provide free access to water hydrants for cleaning, inversion and other work items requiring water. Any connection to hydrants made by the contractor shall utilize an approved backflow preventer. Hydrant use shall be coordinated with the department prior to the beginning of the project.

Cleaning of Sewer Lines – The department has already cleaned and televised the storm sewer lines. All pipes listed for lining are free of obstructions and can be lined without any restoration work.

Bypassing Pumping – Not required under this contract.

Inspection of Pipelines - Inspection has already been completed by the department. DVD's are available upon request. Video inspections after liner installation is not required.

Line Obstructions – All pipes to be lined have been inspected and are clear of obstructions.

CIPP installation shall be according to ASTM F1216, Section 7 or ASTM F1743, Section 6, with the following modifications:

Resin Impregnation - The quantity of resin used for tube impregnation shall be sufficient to fill the volume of air voids in the tube with additional allowances for polymerization shrinkage and the loss of resin through cracks and irregularities in the original pipe wall. A vacuum impregnation process shall be used. To ensure thorough resin saturation throughout the length of the tube, the point of vacuum shall be no further than 25 feet from the point of initial resin introduction. After vacuum in the tube is established, the vacuum points shall be no further than 75 feet from the leading edge of the resin. The leading edge of the resin slug shall be as near to perpendicular as possible. A roller system shall be used to uniformly distribute the resin throughout the tube. To ensure proper impregnation, certify that the above method or another approved method is used.

Tube Insertion – Position the wet out tube in the pipeline using either inversion or a pull in method. If pulled into place, utilize a power winch and exercise care not to damage the tube as a result of pull-in friction. The tube should be pulled-in or inverted through an existing manhole or approved access point and fully extend to the next designated manhole or termination point.

Place temperature gauges inside the tube at the invert level of each end to monitor the temperatures during the cure cycle.

Cure by utilizing water under hydrostatic pressure, steam or other method approved by the manufacturer and engineer, according to the manufacturer's recommended cure schedule.

CIPP samples shall be prepared and physical properties tested according to ASTM F1216 or ASTM F1743, Section 8, using either method proposed. The flexural properties must meet or exceed the values listed in Section 5, structural requirements for the DR furnished in Table #1.

Accomplish leakage testing of the CIPP during cure while under a positive head. CIPP products in which the pipe wall is cured while not in direct contact with the pressurizing fluid (e.g., a removable bladder) must be tested by an alternative method approved by the department.

Visual inspection of the CIPP shall be according to ASTM F1743, Section 8.6.

Upon acceptance of the installation work and testing, restore the project area affected by the operations to its original condition.

All heated water that fills and cures the resin in the liner CANNOT be discharged directly into any waters of the state, or discharged into any area of land that is part of any drainage pattern into a special or impaired water. It must be pumped out and truck-hauled to a water treatment facility.

Existing PVC drain between the median parapets connects to the existing culvert pipe. Provide a "T" connection consisting of 4" PVC pipe from between the medians at each location into the newly lined culverts.

D Measurement

The department will measure Cured-In-Place Pipe Lining (CIPP) in length by the linear foot in place for each location, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Cured-In-Place Pipe Lining (CIPP), 30-Inch	LF

Payment is full compensation for furnishing all labor, tools, equipment, materials, and incidentals, including any required bypass pumping, median drain connections, and disposal of curing water necessary to complete the contract work according to the above stated specifications.

29. Concrete Curb and Gutter Cure and Seal Treatment, Item SPV.0090.02.

A Description

This work includes treating all newly constructed concrete curb and gutter with a surface cure and seal treatment as shown on plans, and as hereinafter provided.

B Materials

Materials shall conform to a clear treating material listed on the current approved WISDOT product list for "Cure and Seal Compounds for Non-Trafficked Surfaces on Structural Masonry".

C Construction

Application rates for the treating material shall be according to the manufacturer's specifications.

D Measurement

The department will measure Concrete Curb and Gutter Cure and Seal Treatment by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Concrete Curb and Gutter Cure and Seal Treatment	LF

Payment is full compensation for furnishing and applying Concrete Curb and Gutter Cure and Seal Treatment.

30. Regrade Ditch, Item SPV.0090.03.**A Description**

This special provision describes excavating, grading, shaping, compacting, topsoiling, and finishing all disturbed areas, and properly disposing of surplus material necessary to grade ditches, as shown on the plans and as directed by the engineer.

B Materials

Incorporate materials in the work that are according to the pertinent provisions of the standard specifications and special provisions.

C Construction

Perform all work according to the pertinent provisions of the standard specifications.

Use all suitable materials removed from the ditches in other areas requiring fill material within the project limits as the engineer directs. Dispose of surplus and unsuitable material as specified in standard spec 205.3.12.

D Measurement

The department will measure Regrade Ditch in length by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Regrade Ditch	LF

Payment is full compensation for furnishing all excavation, grading, shaping, and compacting; furnishing and placing fill if necessary; disposal of surplus material; furnishing and placing topsoil or salvaged topsoil, seed, fertilizer and mulch.

Any erosion mat will be measured and paid for separately under the pertinent items provided in the contract.

31. **Grading, Shaping and Finishing Temporary Widening Sta. 208+34'N' , Item SPV.0105.01; Grading, Shaping and Finishing Temporary Widening Sta. 304+76'N', Item SPV.0105.02; Grading, Shaping and Finishing Temporary Widening Sta. 379+40'N', Item SPV.0105.03; Grading, Shaping and Finishing Temporary Widening Sta. 401+23'N', Item SPV.0105.04; Grading, Shaping and Finishing Temporary Widening Sta. 459+21'N', Item SPV.0105.05; Grading, Shaping and Finishing Temporary Widening Sta. 483+23'N', Item SPV.0105.06.**

A Description

Perform all excavating, filling, grading, shaping, compacting, and finishing as necessary to construct the temporary widening as shown on the plans and according to the pertinent requirements of the standard specifications and as hereinafter provided.

B (Vacant)

C Construction

Dispose of all surplus and unsuitable material according to standard spec 205.3.12.

D Measurement

The department will measure Grading, Shaping and Finishing Temporary Widening (Station) as a single complete lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Grading, Shaping and Finishing Temporary Widening Sta. 208+34'N'	LS
SPV.0105.02	Grading, Shaping and Finishing Temporary Widening Sta. 304+76'N'	LS
SPV.0105.03	Grading, Shaping and Finishing Temporary Widening Sta. 379+40'N'	LS
SPV.0105.04	Grading, Shaping and Finishing Temporary Widening Sta. 401+23'N'	LS
SPV.0105.05	Grading, Shaping and Finishing Temporary Widening Sta. 459+21'N'	LS
SPV.0105.06	Grading, Shaping and Finishing Temporary Widening Sta. 483+23'N'	LS

Payment is full compensation for furnishing all excavating, grading, shaping, and compacting; and for providing and placing fill, salvaged topsoil, temporary seed, and mulch.

Payment for erosion mat, soil stabilizer, base course, and surfacing items will be measured and paid for under the pertinent items provided in the contract.

- 32. Grading, Shaping and Finishing Temporary Widening Removal Sta. 208+34'N' , Item SPV.0105.07; Grading, Shaping and Finishing Temporary Widening Removal Sta 304+76'N', Item SPV.0105.08; Grading, Shaping and Finishing Temporary Widening Removal Sta 379+40'N', Item SPV.0105.09; Grading, Shaping and Finishing Temporary Widening Removal Sta 401+23'N', Item SPV.0105.10; Grading, Shaping and Finishing Temporary Widening Removal Sta 459+21'N', Item SPV.0105.11; Grading, Shaping and Finishing Temporary Widening Removal Sta 483+23'N', Item SPV.0105.12.**

A Description

Perform all excavating, filling, grading, shaping, compacting, and finishing as necessary to construct the temporary widening removal as shown on the plans and according to the pertinent requirements of the standard specifications and as hereinafter provided.

B (Vacant)

C Construction

Dispose of all surplus and unsuitable material according to standard spec 205.3.12.

D Measurement

The department will measure Grading, Shaping and Finishing Temporary Widening Removal (Station) as a single complete lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.07	Grading, Shaping and Finishing Temporary Widening Removal Sta. 208+34'N'	LS
SPV.0105.08	Grading, Shaping and Finishing Temporary Widening Removal Sta. 304+76'N'	LS
SPV.0105.09	Grading, Shaping and Finishing Temporary Widening Removal Sta. 379+40'N'	LS
SPV.0105.10	Grading, Shaping and Finishing Temporary Widening Removal Sta. 401+23'N'	LS
SPV.0105.11	Grading, Shaping and Finishing Temporary Widening Removal Sta. 459+21'N'	LS
SPV.0105.12	Grading, Shaping and Finishing Temporary Widening Removal Sta. 483+23'N'	LS

Payment is full compensation for furnishing all excavating, grading, shaping, and compacting; and for providing and placing fill, topsoil, fertilizer, permanent seed, and temporary seed.

Payment for erosion mat, base course, and surfacing items will be measured and paid for under the pertinent items provided in the contract.

- 33. Slope Flattening Grading, Shaping and Finishing Sta. 315+75'N' - 319+43'N', Item SPV.0105.13; Slope Flattening Grading, Shaping and Finishing Sta. 419+00'N' - 419+80'N', Item SPV.0105.14; Slope Flattening Grading, Shaping and Finishing Sta. 457+50'N' - 459+75'N', Item SPV.0105.15; Slope Flattening Grading, Shaping and Finishing Sta. 482+75'N' - 483+50'N', Item SPV.0105.16; Slope Flattening Grading, Shaping and Finishing Sta. 568+60'N' - 569+10'N', Item SPV.0105.17; Slope Flattening Grading, Shaping and Finishing Sta. 594+30'N' - 595+40'N', Item SPV.0105.18.**

A Description

Perform all excavating, filling, grading, shaping, compacting, and finishing as necessary to construct the slope flattening as shown on the plans and according to the pertinent requirements of the standard specifications and as hereinafter provided.

B (Vacant)

C Construction

Dispose of all surplus and unsuitable material according to standard spec 205.3.12.

D Measurement

The department will measure Slope Flattening Grading, Shaping and Finishing (Station) as a single lump sum unit of work for each location, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.13	Slope Flattening Grading, Shaping and Finishing Sta. 315+75'N' - 319+43'N'	LS
SPV.0105.14	Slope Flattening Grading, Shaping and Finishing Sta. 419+00'N' - 419+80'N'	LS
SPV.0105.15	Slope Flattening Grading, Shaping and Finishing Sta. 457+50'N' - 459+75'N'	LS
SPV.0105.16	Slope Flattening Grading, Shaping and Finishing Sta. 482+75'N' - 483+50'N'	LS

SPV.0105.17	Slope Flattening Grading, Shaping and Finishing Sta. 568+60'N' - 569+10'N'	LS
SPV.0105.18	Slope Flattening Grading, Shaping and Finishing Sta. 594+30'N' - 595+40'N'	LS

Payment is full compensation for furnishing all excavating, grading, shaping, and compacting; for haul and disposing of excess material; and for providing and placing fill, topsoil, fertilizer, temporary seed, and permanent seed.

Payment for erosion mat, base course, and surfacing items will be measured and paid for under the pertinent items provided in the contract.

34. Install City Furnished Insulation Board Polystyrene, Item SPV.0180.01.

A Description

This special provision describes installing polystyrene insulation board as directed by the City of Bayfield as hereinafter provided.

B Materials

Polystyrene insulation board will be supplied by the City of Bayfield Water and Sewer Utility. Contact Tom Kovachevich at (715) 779-5712, or at citypublicworks@cityofbayfield.com for coordination of insulation board.

C (Vacant)

D Measurement

The department will measure Install City Furnished Insulation Board Polystyrene 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
SPV.0180.01	Install City Furnished Insulation Board Polystyrene	SY

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

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

Within 10 calendar days of receiving a progress payment for work completed by a subcontractor, pay the subcontractor for that work. The prime contractor may withhold payment to a subcontractor if, within 10 calendar days of receipt of that progress payment, the prime contractor provides written notification to the subcontractor and the department documenting "just cause" for withholding payment.

The prime contractor may also withhold routine retainage from payments due subcontractors.

Payment to Lower-Tier Subcontractors

Ensure that subcontracting agreements at all tiers provide prompt payment rights to lower-tier subcontractors that parallel those granted first-tier subcontractors in this provision.

Release of Routine Retainage

After granting substantial completion the department may reduce the routine retainage withheld from the prime contractor to 75 percent of the original total amount retained.

When the Department sends the semi-final estimate the department may reduce the routine retainage withheld from the prime contractor to 10 percent of the original total amount retained.

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work and that no routine retainage is being withheld. The department will pay the prime contractor in full and reduce the routine retainage withheld from the prime contractor to zero when the department approves the final estimate.

This special provision does not limit the right of the department, prime contractor, or subcontractors at any tier to withhold payment for work not acceptably completed or work subject to an unresolved contract dispute.

ADDITIONAL SPECIAL PROVISION 6
ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

440.3.5.2 Corrective Actions for Localized Roughness

Replace paragraph two with the following effective with the September 2016 letting:

- (2) The engineer will not direct corrective action or assess a pay reduction for an area of localized roughness without physically riding that work. The engineer will not direct corrective action on bridges without authorization from the department's bureau of structures.
-

450.3.1.1.4 Recording Truck Loads

Replace the entire text with the following effective with the December 2016 letting:

- (1) If not using automatic batch recording, install a digital recorder as part of the platform truck or storage silo scales. Ensure that the recorder can produce a printed digital record of at least the gross or net weights of delivery trucks. Provide gross, tare, net weights, load count, and the cumulative tonnage; the date, time, ticket number, WisDOT project ID, and mix 250 number; and the mix type including the traffic, binder, and mix designation codes specified in 460.3.1. Ensure that scales cannot be manually manipulated during the printing process. Provide an interlock to prevent printing until the scales come to rest. Size the scales and recorder to accurately weigh the heaviest loaded trucks or tractor-trailers hauling asphaltic mixture. Ensure that recorded weights are accurate to within 0.1 percent of the nominal capacity of the scale.
 - (2) Ensure that tickets identify additives not included in the mix design submittal. Indicate on the ticket if the mixture will be placed under a cold weather paving plan and identify the warm mix additive and dosage rate required under 450.3.2.1.2.2.
-

455.3.2.1 General

Replace paragraph one with the following effective with the December 2016 letting:

- (1) Apply tack coat only when the air temperature is 32 F or more unless the engineer approves otherwise in writing. Before applying tack coat ensure that the surface is reasonably free of loose dirt, dust, or other foreign matter. Do not apply to surfaces with standing water. Do not apply if weather or surface conditions are unfavorable or before impending rains.
-

460.2.1 General

Replace the entire text with the following effective with the December 2016 letting:

- (1) Furnish a homogeneous mixture of coarse aggregate, fine aggregate, mineral filler if required, SMA stabilizer if required, recycled material if used, warm mix asphalt additive or process if used, and asphaltic material. Design mixtures conforming to table 460-1 and table 460-2 to 4.0% air voids to establish the aggregate structure.
- (2) Determine the target JMF asphalt binder content for production from the mix design data corresponding to 3.0% air voids (97% Gmm) target at the design the number of gyrations (Ndes). Add liquid asphalt to achieve the required air voids at Ndes.
- (3) For SMA, determine the target JMF asphalt binder content for production from the mix design data corresponding to 4.0% air voids (96% Gmm) target at Ndes.

460.2.8.2.1.5 Control Limits

Replace paragraph one with the following effective with the December 2016 letting:

- (1) Conform to the following control limits for the JMF and warning limits based on a running average of the last 4 data points:

ITEM	JMF LIMITS	WARNING LIMITS
Percent passing given sieve:		
37.5-mm	+/- 6.0	+/- 4.5
25.0-mm	+/- 6.0	+/- 4.5
19.0-mm	+/- 5.5	+/- 4.0
12.5-mm	+/- 5.5	+/- 4.0
9.5-mm	+/- 5.5	+/- 4.0
2.36-mm	+/- 5.0	+/- 4.0
75-µm	+/- 2.0	+/- 1.5
Asphaltic content in percent	- 0.3	- 0.2
Air voids in percent ^[1]	+1.3/-1.0	+1.0/-0.7
VMA in percent ^[2]	- 0.5	- 0.2

^[1] For SMA, JMF limits are +/-1.3 and warning limits are +/-1.0.

^[2] VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1.

460.2.8.2.1.6 Job Mix Formula Adjustment

Replace paragraph one with the following effective with the December 2016 letting:

- (1) The contractor may request adjustment of the JMF according to CMM 8-36.6.13.1. Have an HMA technician certified at a level appropriate for process control and troubleshooting or mix design submit a written JMF adjustment request. Ensure that the resulting JMF is within specified master gradation bands. The department will have a certified Hot Mix Asphalt, Mix Design, Report Submittals technician review the proposed adjustment and, if acceptable, issue a revised JMF.

460.2.8.3.1.6 Acceptable Verification Parameters

Replace paragraph one with the following effective with the December 2016 letting:

- (1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:
- Va is within a range of 2.0 to 4.3 percent. For SMA, Va is within a range of 2.7 to 5.3 percent.
 - VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.

460.3.3.1 Minimum Required Density

Replace paragraph one with the following effective with the December 2016 letting:

- (1) Compact all layers of HMA mixture to the density table 460-3 shows for the applicable mixture, location, and layer.

TABLE 460-3 MINIMUM REQUIRED DENSITY^[1]

LOCATION	LAYER	PERCENT OF TARGET MAXIMUM DENSITY		
		MIXTURE TYPE		
		LT and MT	HT	SMA ^[5]
TRAFFIC LANES ^[2]	LOWER	93.0 ^[3]	93.0 ^[4]	—
	UPPER	93.0	93.0	—
SIDE ROADS, CROSSOVERS, TURN LANES, & RAMPS	LOWER	93.0 ^[3]	93.0 ^[4]	—
	UPPER	93.0	93.0	—
SHOULDERS & APPURTENANCES	LOWER	91.0	91.0	—
	UPPER	92.0	92.0	—

^[1] The table values are for average lot density. If any individual density test result falls more than 3.0 percent below the minimum required target maximum density, the engineer may investigate the acceptability of that material.

^[2] Includes parking lanes as determined by the engineer.

^[3] Minimum reduced by 2.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

^[4] Minimum reduced by 1.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

^[5] The minimum required densities for SMA mixtures are determined according to CMM 8-15.

460.5.2.1 General

Replace paragraph six with the following effective with the December 2016 letting:

- (6) If during a QV dispute resolution investigation the department discovers mixture with $1.5 > V_a > 5.0$ or VMA more than 1.0 below the minimum allowed in table 460-1, and the engineer allows that mixture to remain in place, the department will pay for the quantity of affected material at 50 percent of the contract price.

460.5.2.3 Incentive for HMA Pavement Density

Replace paragraph one with the following effective with the December 2016 letting:

- (1) If the lot density is greater than the minimum specified in table 460-3 and all individual air voids test results for that mixture placed during the same day are within 2.5 - 4.0 percent, the department will adjust pay for that lot as follows:

INCENTIVE PAY ADJUSTMENT FOR HMA PAVEMENT DENSITY^[1]

PERCENT LOT DENSITY ABOVE SPECIFIED MINIMUM	PAY ADJUSTMENT PER TON ^[2]
From -0.4 to 1.0 inclusive	\$0
From 1.1 to 1.8 inclusive	\$0.40
More than 1.8	\$0.80

^[1] SMA pavements are not eligible for density incentive.

^[2] The department will prorate the pay adjustment for a partial lot.

501.2.6 Fly Ash

Replace the entire subsection with the following effective with the December 2016 letting:

501.2.6.1 General

- (1) Fly ash is defined as a finely divided residue resulting from the combustion of coal in a base loaded electric generating plant, transported from the boiler by flue gases, and later collected, generally by precipitators. Use fly ash in concrete manufactured by facilities and processes known to provide satisfactory material.
- (2) Test fly ash using a recognized laboratory, as defined in 501.2.2(1), starting at least 30 days before its proposed use, and continuing at ASTM-required frequencies as the work progresses. The manufacturer shall test the chemical and physical properties listed in tables 1 and 2 of ASTM C618 at the frequencies and by the test methods prescribed in ASTM C311.
- (3) Use only one source of fly ash for a bid item of work under the contract, unless the engineer directs or allows otherwise in writing.
- (4) Prequalify any proposed fly ash source as follows: The contractor shall obtain a copy of the certified report of tests or analysis made by a qualified independent laboratory, recognized by the department under 501.2.2, showing full and complete compliance with the above specification from the fly ash manufacturer and furnish it to the engineer. Provide this report to the engineer at least 14 calendar days before using the fly ash.
- (5) The manufacturer shall retain test records for at least 5 years after completing the work, and provide these records upon request.

501.2.6.2 Class C Ash

- (1) Conform to ASTM C618 class C except limit the loss on ignition to a maximum of 2 percent.

501.2.6.3 Class F Ash

- (2) Furnish a class F fly ash from a source listed on the department's approved product list, and conform to ASTM C618 class F except limit the loss on ignition to a maximum of 2 percent.

502.3.7.8 Floors

Replace paragraph sixteen with the following effective with the September 2016 letting:

- (16) The finished bridge floor shall conform to the surface test specified in 415.3.10. The engineer will not direct corrective grinding without authorization from the department's bureau of structures.

503.3.2.1.1 Tolerances

Increase the "length of beam" max tolerance for prestressed concrete I-type girders from 3/4" to 1 1/2" effective with the December 2016 letting:

PRESTRESSED CONCRETE I-TYPE GIRDERS

Length of beam..... +/- 1/8" per 10', up to a max of +/- 1 1/2"

Errata

Make the following corrections to the standard specifications:

Throughout the contract:

Update all references to the construction rental rate "Blue Book" to reference "EquipmentWatch" rates.

105.13.4 Content of Claim

- (1) Include the following 5 items in the claim.
 1. A concise description of the claim.
 2. A clear contractual basis for the claim. This should include reference to 104.2 on revisions to the contract and as appropriate, specific reference to contract language regarding the bid items in question.
 3. Other facts the contractor relies on to support the claim.
 4. A concise statement of the circumstances surrounding the claim and reasons why the department should pay the claim. Explain how the claimed work is a change to the contract work.
 5. A complete breakdown of the costs used to compile the claim. Include copies of all EquipmentWatch equipment rental rate sheets used, with the applicable number highlighted.

109.4.5.5.1 General

- (2) The department will pay for use of contractor-owned equipment the engineer approves for force account work at published rates. The department will pay the contractor expense rates, as modified in 109.4.5.5, given in EquipmentWatch Cost Recovery (formerly Rental Rate Blue Book) . Base all rates on revisions effective on January 1 for all equipment used in that calendar year.

<http://equipmentwatch.com/estimator/>

109.4.5.5.2 Hourly Equipment Expense Rates (Without Operators)

- (1) The contractor shall determine, and the department will confirm, hourly equipment expense rates as follows:

$$\text{HEER} = [\text{RAF} \times \text{ARA} \times (\text{R}/176)] + \text{HOC}$$

Where:

HEER = Hourly equipment expense rate.
 RAF = EquipmentWatch regional adjustment factor.
 ARA = EquipmentWatch age rate adjustment factor.
 R = Current EquipmentWatch monthly rate.
 HOC = EquipmentWatch estimated hourly operating cost.

- (2) The EquipmentWatch hourly operating cost represents all costs of equipment operation, including fuel and oil, lubrication, field repairs, tires, expendable parts, and supplies.

109.4.5.5.3 Hourly Equipment Stand-By Rate

- (1) For equipment that is in operational condition and is standing-by with the engineer's approval, the contractor shall determine, and the department will confirm, the hourly stand-by rate as follows:

$$\text{HSBR} = \text{RAF} \times \text{ARA} \times (\text{R}/176) \times (1/2)$$

Where:

HSBR = Hourly stand-by rate.
 RAF = EquipmentWatch regional adjustment factor.
 ARA = EquipmentWatch age rate adjustment factor.
 R = Current EquipmentWatch monthly rate.

- (2) The department will limit payment for stand-by to 10 hours or less per day up to 40 hours per week. The department will not pay the contractor for equipment that is inoperable due to breakdown. The department will not pay for idle equipment if the contractor suspends work or if the contractor is maintaining or repairing the equipment.

109.4.5.5.4 Hourly Outside-Rented Equipment Rate

- (1) If the contractor rents or leases equipment from a third party for force account work, the contractor shall determine, and the department will confirm, the hourly outside-rented equipment rate as follows:

$$\text{HORER} = \text{HRI} + \text{HOC}$$

Where:

HORER = Hourly outside-rented equipment rate

HRI = Hourly rental invoice costs prorated for the actual number of hours that rented equipment is operated solely on force account work

HOC = EquipmentWatch hourly operating cost.

109.2 Scope of Payment

Correct errata to clarify that work under the contract is included in payment unless specifically excluded.

- (2) The department will pay for the quantity of work acceptably completed and measured for payment as the measurement subsection for each bid item specifies. Within the contract provide means to furnish and install the work complete and in-place. Payment is full compensation for everything required to perform the work under the contract including, but not limited to, the work elements listed in the payment subsection. Payment also includes all of the following not specifically excluded in that payment subsection:
1. Furnishing and installing all materials as well as furnishing the labor, tools, supplies, equipment, and incidentals necessary to perform the work.
 2. All losses or damages, except as specified in 107.14, arising from one or more of the following:
 - The nature of the work.
 - The action of the elements.
 - Unforeseen difficulties encountered during prosecution of the work.
 3. All insurance costs, expenses, and risks connected with the prosecution of the work.
 4. All expenses incurred because of an engineer-ordered suspension, except as specified in 104.2.2.3.
 5. All infringements of patents, trademarks, or copyrights.
 6. All other expenses incurred to complete and protect the work under the contract.

204.3.2.2.1 General

Correct errata by removing the reference to 490 which was deleted effective with the 2017 spec.

- (1) Under the Removing Pavement bid item, remove concrete pavements, concrete alleys, concrete driveways, or rigid base including all surfaces or other pavements superimposed on them.

657.2.2.1.1 General

Correct errata by eliminating the reference to department provided arms in the last sentence.

- (1) Furnish shop drawings as specified in 506.3.2, except submit 5 copies with the materials list. Ensure the drawings contain sufficient detail to allow satisfactory review and show the outside diameters of the pole at the butt, top, and splice locations the plans show. Show the width, depth, length, and thickness of all material, and list pertinent ASTM specification designations and metal alloy designations together with the tensile strength of metallic members. Provide tightening procedures for arm-to-pole connections on the shop drawings.

657.2.2.1.4 Poles Designed Under Legacy Standards

Correct errata by deleting the entire subsection to eliminate redundant language.

657.2.2.2 Trombone Arms

Correct errata by changing the reference from 657.2.2.1.3 to 657.2.2.1.2.

- (1) Design aluminum trombone arms as specified in 657.2.2.1.2 based on the completed maximum loading configuration the plans show. Furnish shop drawings conforming to 657.2.2.1.1 that show the width, depth, length, and thickness of all members. Also list the ASTM alloy designation and strength of each aluminum member on the shop drawings.

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>

Non-discrimination Provisions

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

- a. Withholding payments to the contractor under the contract until the contractor complies; and/or
- b. Cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

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/hcciDocs/contracting-info/ws4567.doc>

Effective with September 2004 Letting

**WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS AND TRANSPORTATION FACILITIES**

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS

- I. Wage Rates, Hours of labor and payment of Wages
- II. Payroll Requirements
- III. Postings at the Site of the Work
- IV. Affidavits
- V. Wage Rate Redistribution
- VI. Additional Classifications

I. WAGE RATES, HOURS OF LABOR AND PAYMENT OF WAGES

The schedule of "Minimum Wage Rates" attached hereto and made a part hereof furnishes the prevailing wage rates that have been determined pursuant to Section 103.50 of the Wisconsin Statutes. These wage rates are the minimum required to be paid to the various laborers, workers, mechanics and truck drivers employed by contractors and subcontractors on the construction work embraced by the contract and subject to prevailing hours and wages under Section 103.50, Stats. If necessary to employ laborers, workers, mechanics or truck drivers whose classification is not listed on the schedule, they shall be paid at rates conformable to those listed for similar classifications. Apprentices shall be paid at rates not less than those prescribed in their state indenture contracts.

While the wage rates shown are the minimum rates required by the contract to be paid during its life, this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price shall be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

Pursuant to Section 103.50 of the Wisconsin Statutes, the prevailing hours of labor have been determined to be up to 10 hours per day and 40 hours per calendar week Monday through Friday. If any laborer, worker, mechanic or truck driver is permitted or required to work more than the prevailing number of hours per day or per calendar week on this contract, they shall be paid for all hours in excess of the prevailing hours at a rate of at least one and one-half (1 1/2) times their hourly rate of pay. All work on Saturday, Sunday and the following holidays is to be paid at time and a half: (1) January 1, (2) the last Monday in May, (3) July 4, (4) the first Monday in September, (5) the fourth Thursday in November, (6) December 25, (7) the day before if January 1, July 4 or December 25 falls on a Saturday and (8) the day following if January 1, July 4 or December 25 falls on a Sunday.

All laborers, workers, mechanics and truck drivers shall be paid unconditionally not less often than once a week. Persons who own and operate their own trucks must receive the prevailing truck driver rate for the applicable type of truck (i.e. 2 axle, 3 or more axle, articulated, eculid or dumptor) he or she operates, plus an agreed upon amount for the use of his or her truck. Every owner-operator **MUST** be paid separately for their driving and for the use of their truck.

For those projects subject to the requirements of the Davis-Bacon Act, the Secretary of Labor will also have determined "Minimum Wage Rates" for work to be performed under the contract. These rates are, for all or most of the labor, worker, mechanic or truck driver classifications, identical to those established under Section 103.50 of the Wisconsin Statutes. In the event the rates are not identical, the higher of the two rates will govern.

II. PAYROLL REQUIREMENTS

All contractors and subcontractors must submit weekly Certified Payrolls and Compliance Statement verifying that all laborers, workers, mechanics and truck drivers working on the project have been paid the prevailing wage rates for all work performed under the contract required by Section 103.50 of the Wisconsin Statutes.

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the Department, the contractor shall post the following in at least one conspicuous place at the site of work:

- a. "NOTICE TO EMPLOYEES," which provides information required to be posted by the provisions of Section 103.50 of the Wisconsin Statutes.
- b. A copy of the State of Wisconsin Minimum Wages Rates. (Four pages.)
- c. A copy of the contractor's Equal Employment Opportunity Policy.
- d. On any project involving federal aid, in addition to the furnished postings, the contractor shall post a copy of the "Davis-Bacon Act, Minimum Wage Rates". (Three pages.)

IV. WAGE RATE REDISTRIBUTION

The amount specified as the hourly basic rate of pay and the amount(s) specified as the fringe benefit contribution(s), for all classes of laborers, workers, mechanics or truck drivers may be redistributed, when necessary, to conform to those specified in any applicable collective bargaining agreement, provided that both parties to such agreement

request and receive the approval for any such redistribution from both the Department of Transportation and the Department of Workforce Development prior to the implementation of such redistribution.

V. ADDITIONAL CLASSIFICATIONS

Any unlisted laborer or mechanic classification that is needed to perform work on this project, and is not included within the scope of any of the classifications listed in the application prevailing wage rate determination, may be added after award only if all of the following criteria have been met:

1. The affected employer(s) must make a written request to WisDOT Central Office to utilize the unlisted classification on this project.
2. The request must indicate the scope of the work to be performed by the unlisted classification and must indicate the proposed wage/fringe benefit package that the unlisted classification is to receive.
3. The work to be performed by the unlisted classification must not be performed by a classification that is included in the applicable prevailing wage rate determination.
4. The unlisted classification must be commonly employed in the area where the project is located.
5. The proposed wage/fringe benefit package must bear a reasonable relationship to those set forth in the applicable prevailing wage rate determination.
6. The request should be made prior to the actual performance of the work by the unlisted classification.
7. DWD must approve the use of the unlisted classification and the proposed wage/fringe benefit package. USDOL also must approve the use of the unlisted classification and the proposed wage/fringe benefit package on federal aid projects.
8. WisDOT and DWD may amend the proposed wage/fringe benefit package, as deemed necessary, and may set forth specific employment ratios and scope of work requirements in the approval document.

The approved wage/fringe benefit package shall be paid to all laborers, workers, mechanics or truck drivers performing work within the scope of that performed by the unlisted classification, from the first day on which such work is performed. In the event that work is performed by the unlisted classification prior to approval, the wage/fringe benefit package to be paid for such work must be in conformance with the wage/fringe

benefit package approved for such work. Under this arrangement a retroactive adjustment in wages and/or fringe benefits may be required to be made to the affected laborers, workers, mechanics or truck drivers by the affected employer(s).

**ANNUAL PREVAILING WAGE RATE DETERMINATION
FOR ALL STATE HIGHWAY PROJECTS
BAYFIELD 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, 2016

CLASSIFICATION: Contractors are required to call the Department of Workforce Development if there are any questions regarding the proper trade or classification to be used for any worker on a public works project.

OVERTIME: Time and one-half must be paid for all hours worked over 10 hours per day and 40 hours per calendar week and for all hours worked on Saturday, Sunday and the following six (6) holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25; the day before if January 1, July 4 or December 25 falls on a Saturday; the day following if January 1, July 4 or December 25 falls on a Sunday.

FUTURE INCREASE: If indicated for a specific trade or occupation, the full amount of such increase MUST be added to the "TOTAL" indicated for such trade or occupation on the date(s) such increase(s) becomes effective.

PREMIUM PAY: If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.

SUBJOURNEY: Wage rates may be available for some of the classifications indicated below. Any employer that desires to use any subjourney classification on a project MUST request the applicable wage rate from the Department of Workforce Development PRIOR to the date such classification is used on such project. Form ERD-10880 is available for this purpose and can be obtained by writing to the Department of Workforce Development, Equal Rights Division, P.O. Box 8928, Madison, WI 53708.

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
Bricklayer, Blocklayer or Stonemason	31.55	18.52	50.07
Carpenter	34.79	15.90	50.69
Cement Finisher	36.35	17.07	53.42
Electrician	33.93	21.95	55.88
Fence Erector	35.62	0.00	35.62
Ironworker	31.04	23.45	54.49
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.			
Line Constructor (Electrical)	40.81	18.06	58.87
Painter	29.87	18.79	48.66
Pavement Marking Operator	30.00	18.83	48.83
Piledriver	30.11	21.09	51.20
Roofer or Waterproofing	30.40	2.23	32.63
Teledata Technician or Installer	22.50	11.89	34.39
Tuckpointer, Caulker or Cleaner	34.28	18.60	52.88
Underwater Diver (Except on Great Lakes)	36.74	16.00	52.74
Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	36.73	15.92	52.65
Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	32.65	16.12	48.77
Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	28.57	13.71	42.28
Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.53	13.09	39.62
Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
TRUCK DRIVERS			
Single Axle or Two Axle	36.72	21.15	57.87
Three or More Axle	25.78	18.96	44.74
Premium Pay: DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.			
Articulated, Euclid, Dumptror, Off Road Material Hauler	25.78	18.96	44.74
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.			
Pavement Marking Vehicle	23.82	17.72	41.54
Shadow or Pilot Vehicle	25.28	18.31	43.59
Truck Mechanic	25.28	18.31	43.59

LABORERS

General Laborer	30.67	15.65	46.32
Future Increase(s): 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	24.92	11.06	35.98
Landscaper	30.67	15.65	46.32
Future Increase(s): 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	27.30	15.65	42.95
Future Increase(s): 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 artificial illumination with traffic control and the work is completed after sunset and before sunrise.			
Fiber Optic Laborer (Outside, Other Than Concrete Encased)	16.00	4.31	20.31
Railroad Track Laborer	24.22	15.12	39.34

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	38.27	21.85	60.12
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TRADE OR OCCUPATION	HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
	\$	\$	\$
Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.30/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://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx .			
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. Future Increase(s): 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://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx .	37.77	21.85	59.62
Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Heater, Planer & Scarifier; Asphalt Milling Machine; Asphalt Screed; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a 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 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 \$1.30/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://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx .	37.27	21.85	59.12
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	37.01	21.85	58.86

<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u>	<u>HOURLY FRINGE BENEFITS</u>	<u>TOTAL</u>
	\$	\$	\$
Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): 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://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx .			
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 \$1.30/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://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/prevaling-wage-compliance.aspx .	36.72	21.85	58.57
Fiber Optic Cable Equipment.	28.50	0.88	29.38
Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
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
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.	36.72	21.15	57.87
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.	36.72	21.15	57.87

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
8160-04-64FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 Contract Items
CULVERT REPAIR, REPLACE & CLEAN

0010	201.0105 Clearing	21.000				
		STA	.		.	
0020	201.0205 Grubbing	21.000				
		STA	.		.	
0030	203.0100 Removing Small Pipe Culverts	22.000				
		EACH	.		.	
0040	203.0200 Removing Old Structure (station) 01. Sta 208+34'N'	LUMP	LUMP			.
0050	203.0200 Removing Old Structure (station) 02. Sta 208+49'N'	LUMP	LUMP			.
0060	204.0150 Removing Curb & Gutter	47.000				
		LF	.		.	
0070	204.0190 Removing Surface Drains	1.000				
		EACH	.		.	
0080	204.9060.S Removing (item description) 01. Apron Endwalls	44.000				
		EACH	.		.	
0090	209.2100 Backfill Granular Grade 2	4,000.000				
		CY	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
8160-04-64FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	213.0100 Finishing Roadway (project) 01. 8160-04-64	1.000 EACH	.		.	
0110	305.0110 Base Aggregate Dense 3/4-Inch	1,830.000 TON	.		.	
0120	305.0120 Base Aggregate Dense 1 1/4-Inch	2,125.000 TON	.		.	
0130	312.0110 Select Crushed Material	400.000 TON	.		.	
0140	455.0605 Tack Coat	344.000 GAL	.		.	
0150	465.0105 Asphaltic Surface	1,232.000 TON	.		.	
0160	465.0315 Asphaltic Flumes	10.000 SY	.		.	
0170	504.0900 Concrete Masonry Endwalls	27.200 CY	.		.	
0180	520.2024 Culvert Pipe Temporary 24-Inch	12.000 LF	.		.	
0190	520.8700 Cleaning Culvert Pipes	1.000 EACH	.		.	
0200	520.9700.S Culvert Pipe Liners (size) 01. 24-Inch	488.000 LF	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0210	520.9700.S Culvert Pipe Liners (size) 02. 30-Inch	494.000 LF	.		.	
0220	520.9700.S Culvert Pipe Liners (size) 03. 36-Inch	406.000 LF	.		.	
0230	520.9700.S Culvert Pipe Liners (size) 04. 42-Inch	274.000 LF	.		.	
0240	520.9700.S Culvert Pipe Liners (size) 05. 48-Inch	232.000 LF	.		.	
0250	520.9700.S Culvert Pipe Liners (size) 06. 54-Inch	128.000 LF	.		.	
0260	520.9700.S Culvert Pipe Liners (size) 07. 72-Inch	96.000 LF	.		.	
0270	520.9750.S Cleaning Culvert Pipes for Liner Verification	28.000 EACH	.		.	
0280	521.1024 Apron Endwalls for Culvert Pipe Steel 24-Inch	13.000 EACH	.		.	
0290	521.1030 Apron Endwalls for Culvert Pipe Steel 30-Inch	9.000 EACH	.		.	
0300	521.1036 Apron Endwalls for Culvert Pipe Steel 36-Inch	9.000 EACH	.		.	
0310	521.1042 Apron Endwalls for Culvert Pipe Steel 42-Inch	3.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
8160-04-64FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0320	521.1048 Apron Endwalls for Culvert Pipe Steel 48-Inch	6.000 EACH	.		.	
0330	521.1054 Apron Endwalls for Culvert Pipe Steel 54-Inch	4.000 EACH	.		.	
0340	521.1072 Apron Endwalls for Culvert Pipe Steel 72-Inch	2.000 EACH	.		.	
0350	522.0130 Culvert Pipe Reinforced Concrete Class III 30-Inch	88.000 LF	.		.	
0360	522.0136 Culvert Pipe Reinforced Concrete Class III 36-Inch	222.000 LF	.		.	
0370	522.0148 Culvert Pipe Reinforced Concrete Class III 48-Inch	184.000 LF	.		.	
0380	522.0324 Culvert Pipe Reinforced Concrete Class IV 24-Inch	64.000 LF	.		.	
0390	522.0336 Culvert Pipe Reinforced Concrete Class IV 36-Inch	64.000 LF	.		.	
0400	522.0354 Culvert Pipe Reinforced Concrete Class IV 54-Inch	60.000 LF	.		.	
0410	522.0384 Culvert Pipe Reinforced Concrete Class IV 84-Inch	136.000 LF	.		.	
0420	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	2.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0430	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH 3.000	.		.	
0440	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH 6.000	.		.	
0450	522.1054 Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH 2.000	.		.	
0460	523.0119 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF 64.000	.		.	
0470	523.0138 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	LF 64.000	.		.	
0480	523.0148 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 48x76-Inch	LF 70.000	.		.	
0490	523.0419 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF 60.000	.		.	
0500	523.0424 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF 86.000	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
8160-04-64FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0510	523.0519 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH 4.000	.		.	
0520	523.0524 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH 2.000	.		.	
0530	523.0538 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH 2.000	.		.	
0540	523.0548 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76-Inch	EACH 2.000	.		.	
0550	528.0124 Culvert Pipe Corrugated Steel Polymer Coated 24-Inch	LF 202.000	.		.	
0560	601.0557 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF 67.000	.		.	
0570	606.0100 Riprap Light	CY 352.000	.		.	
0580	606.0200 Riprap Medium	CY 542.000	.		.	
0590	606.0300 Riprap Heavy	CY 21.000	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0600	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	113.000 LF	.		.	
0610	611.0430 Reconstructing Inlets	4.000 EACH	.		.	
0620	611.0612 Inlet Covers Type C	1.000 EACH	.		.	
0630	611.0642 Inlet Covers Type MS	1.000 EACH	.		.	
0640	611.2005 Manholes 5-FT Diameter	1.000 EACH	.		.	
0650	611.8115 Adjusting Inlet Covers	1.000 EACH	.		.	
0660	611.8120.S Cover Plates Temporary	1.000 EACH	.		.	
0670	618.0100 Maintenance And Repair of Haul Roads (project) 01. 8160-04-64	1.000 EACH	.		.	
0680	619.1000 Mobilization	1.000 EACH	.		.	
0690	625.0500 Salvaged Topsoil	3,068.000 SY	.		.	
0700	628.1104 Erosion Bales	360.000 EACH	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0710	628.1504 Silt Fence	7,020.000				
	LF		.		.	
0720	628.1520 Silt Fence Maintenance	7,020.000				
	LF		.		.	
0730	628.1905 Mobilizations Erosion Control	8.000				
	EACH		.		.	
0740	628.1910 Mobilizations Emergency Erosion Control	6.000				
	EACH		.		.	
0750	628.2004 Erosion Mat Class I Type B	7,105.000				
	SY		.		.	
0760	628.2008 Erosion Mat Urban Class I Type B	3,254.000				
	SY		.		.	
0770	628.6505 Soil Stabilizer Type A	1.000				
	ACRE		.		.	
0780	628.7005 Inlet Protection Type A	3.000				
	EACH		.		.	
0790	628.7015 Inlet Protection Type C	2.000				
	EACH		.		.	
0800	628.7555 Culvert Pipe Checks	170.000				
	EACH		.		.	
0810	628.7560 Tracking Pads	1.000				
	EACH		.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
8160-04-64FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0820	629.0210 Fertilizer Type B	2.050 CWT	.		.	
0830	630.0110 Seeding Mixture No. 10	42.900 LB	.		.	
0840	630.0200 Seeding Temporary	86.800 LB	.		.	
0850	633.5200 Markers Culvert End	134.000 EACH	.		.	
0860	634.0616 Posts Wood 4x6-Inch X 16-FT	50.000 EACH	.		.	
0870	637.2210 Signs Type II Reflective H	74.680 SF	.		.	
0880	637.2230 Signs Type II Reflective F	319.260 SF	.		.	
0890	638.2102 Moving Signs Type II	5.000 EACH	.		.	
0900	638.2602 Removing Signs Type II	64.000 EACH	.		.	
0910	638.3000 Removing Small Sign Supports	48.000 EACH	.		.	
0920	642.5001 Field Office Type B	1.000 EACH	.		.	

Wisconsin Department of Transportation

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DATE: 10/07/16

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
8160-04-64FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0930	643.0100 Traffic Control (project) 01. 8160-04-64	1.000 EACH	.		.	
0940	643.0300 Traffic Control Drums	1,750.000 DAY	.		.	
0950	643.0420 Traffic Control Barricades Type III	196.000 DAY	.		.	
0960	643.0705 Traffic Control Warning Lights Type A	924.000 DAY	.		.	
0970	643.0900 Traffic Control Signs	4,744.000 DAY	.		.	
0980	643.2000 Traffic Control Detour (project) 01. 8160-04-64	1.000 EACH	.		.	
0990	643.3000 Traffic Control Detour Signs	1,764.000 DAY	.		.	
1000	645.0111 Geotextile Type DF Schedule A	1,000.000 SY	.		.	
1010	645.0120 Geotextile Type HR	1,728.000 SY	.		.	
1020	645.0130 Geotextile Type R	1,126.000 SY	.		.	
1030	646.0103 Pavement Marking Paint 4-Inch	186,526.000 LF	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
8160-04-64FEDERAL ID(S):
N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1040	646.0106 Pavement Marking Epoxy 4-Inch	3,038.000 LF	.		.	
1050	647.0563 Pavement Marking Stop Line Paint 18-Inch	60.000 LF	.		.	
1060	647.0763 Pavement Marking Crosswalk Paint 6-Inch	70.000 LF	.		.	
1070	650.4000 Construction Staking Storm Sewer	3.000 EACH	.		.	
1080	650.4500 Construction Staking Subgrade	3,764.000 LF	.		.	
1090	650.5000 Construction Staking Base	3,764.000 LF	.		.	
1100	650.5500 Construction Staking Curb Gutter and Curb & Gutter	47.000 LF	.		.	
1110	650.6000 Construction Staking Pipe Culverts	18.000 EACH	.		.	
1120	650.9910 Construction Staking Supplemental Control (project) 01. 8160-04-64	LUMP	LUMP		.	
1130	650.9920 Construction Staking Slope Stakes	6,499.000 LF	.		.	
1140	690.0150 Sawing Asphalt	1,339.000 LF	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1150	690.0250 Sawing Concrete	18.000				
	LF		.		.	
1160	SPV.0035 Special 01. Beveled Edge Concrete Masonry Endwall	15.400				
	CY		.		.	
1170	SPV.0035 Special 02. Riprap Installation Sta. 379+40 'N' RT	60.000				
	CY		.		.	
1180	SPV.0060 Special 01. Cleaning Culvert Pipes Minimal	6.000				
	EACH		.		.	
1190	SPV.0060 Special 02. Temporary Water Passage	1.000				
	EACH		.		.	
1200	SPV.0060 Special 03. Cofferdams Special	8.000				
	EACH		.		.	
1210	SPV.0060 Special 04. Utility Line Opening (ULO)	9.000				
	EACH		.		.	
1220	SPV.0090 Special 01. Cured-In-Place Pipe Lining (CIPP), 30-Inch	114.000				
	LF		.		.	
1230	SPV.0090 Special 02. Concrete Curb and Gutter Cure and Seal Treatment	67.000				
	LF		.		.	
1240	SPV.0090 Special 03. Regrade Ditch	380.000				
	LF		.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1250	SPV.0105 Special 01. Grading, Shaping and Finishing Temporary Widening Sta. 208+34'N'	LUMP	LUMP		.	
1260	SPV.0105 Special 02. Grading, Shaping and Finishing Temporary Widening Sta. 304+76'N'	LUMP	LUMP		.	
1270	SPV.0105 Special 03. Grading, Shaping and Finishing Temporary Widening Sta. 379+40'N'	LUMP	LUMP		.	
1280	SPV.0105 Special 04. Grading, Shaping and Finishing Temporary Widening Sta. 401+23'N'	LUMP	LUMP		.	
1290	SPV.0105 Special 05. Grading, Shaping and Finishing Temporary Widening Sta. 459+21'N'	LUMP	LUMP		.	
1300	SPV.0105 Special 06. Grading, Shaping and Finishing Temporary Widening Sta. 483+23'N'	LUMP	LUMP		.	
1310	SPV.0105 Special 07. Grading, Shaping and Finishing Temporary Widening Removal Sta. 208+34'N'	LUMP	LUMP		.	
1320	SPV.0105 Special 08. Grading, Shaping and Finishing Temporary Widening Removal Sta. 304+76'N'	LUMP	LUMP		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1330	SPV.0105 Special 09. Grading, Shaping and Finishing Temporary Widening Removal Sta. 379+40'N'	LUMP	LUMP			.
1340	SPV.0105 Special 10. Grading, Shaping and Finishing Temporary Widening Removal Sta. 401+23'N'	LUMP	LUMP			.
1350	SPV.0105 Special 11. Grading, Shaping and Finishing Temporary Widening Removal Sta. 459+21'N'	LUMP	LUMP			.
1360	SPV.0105 Special 12. Grading, Shaping and Finishing Temporary Widening Removal Sta. 483+23'N'	LUMP	LUMP			.
1370	SPV.0105 Special 13. Slope Flattening Grading, Shaping and Finishing Sta. 315+75'N' - 319+43'N'	LUMP	LUMP			.
1380	SPV.0105 Special 14. Slope Flattening Grading, Shaping and Finishing Sta. 419+00'N' - 419+80'N'	LUMP	LUMP			.
1390	SPV.0105 Special 15. Slope Flattening Grading, Shaping and Finishing Sta. 457+50'N' - 459+75'N'	LUMP	LUMP			.

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20161213042PROJECT(S):
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N/A

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1400	SPV.0105 Special 16. Slope Flattening Grading, Shaping and Finishing Sta. 482+75'N' - 483+50'N'	LUMP	LUMP		.	
1410	SPV.0105 Special 17. Slope Flattening Grading, Shaping and Finishing Sta. 568+60'N' - 569+10'N'	LUMP	LUMP		.	
1420	SPV.0105 Special 18. Slope Flattening Grading, Shaping and Finishing Sta. 594+30'N' - 595+40'N'	LUMP	LUMP		.	
1430	SPV.0180 Special 01. Install City Furnished Insulation Board Polystyrene	SY	50.000	.	.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	

PLEASE ATTACH SCHEDULE OF ITEMS HERE