

HIGHWAY WORK PROPOSAL

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

Proposal Number: **019**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Milwaukee	3700-20-80	N/A	Replace Existing Signals; Various Signalized Intersections	VAR HWY

ADDENDUM REQUIRED ATTACHED AT BACK

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

Proposal Guaranty Required: \$75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: February 11, 2020 Time (Local Time): 9:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time 81 Working Days	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)

(Bidder Signature)

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

(Print or Type Bidder Name)

(Date Commission Expires)

(Bidder Title)

Notary Seal

Type of Work: Grade, Base, Concrete Pavement, Asphalt Pavement, Curb & Gutter, Sidewalk, Signing, Signals, Lighting, Pavement Marking	For Department Use Only
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH
PROPOSAL GUARANTY HERE**

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

- (1) Obtain bidding proposals as specified in section 102 of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:
 1. Electronic bid on the internet.
 2. Electronic bid on a printout with accompanying diskette or CD ROM.
 3. Paper bid under a waiver of the electronic submittal requirements.
- (2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.

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

The contractor is responsible for reviewing this web site for general notices as well as information regarding proposals in each letting. The department will also post special notices of all addenda to each proposal through this web site no later than 4:00 PM local time on the Thursday before the letting. Check the department's web site after 5:00 PM local time on the Thursday before the letting to ensure all addenda have been accounted for before preparing the bid. When bidding using methods 1 and 2 above, check the Bid Express™ on-line bidding exchange at <http://www.bidx.com/> after 5:00 PM local time on the Thursday before the letting to ensure that the latest schedule of items Expedite file (*.ebs or *.00x) is used to submit the final bid.

- (4) Interested parties can subscribe to the Bid Express™ on-line bidding exchange by following the instructions provided at the www.bidx.com web site or by contacting:

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

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:
<https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

or by calling the department at (608) 266-1631. Addenda can ONLY be obtained from the department's web site listed above or by picking up the addenda at the Bureau of Highway Construction, 4th floor, 4822 Madison Yards Way, Madison, WI, during regular business hours.

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

B Submitting Electronic Bids

B.1 On the Internet

- (1) Do the following before submitting the bid:
 1. Have a properly executed annual bid bond on file with the department.

2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.
- (2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:
 1. Download the latest schedule of items reflecting all addenda from the Bid Express™ web site.
 2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
 3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
 4. Submit the bid before the hour and date the Notice to Contractors designates.
 5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.
- (3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

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

- (1) Download the latest schedule of items from the Wisconsin pages of the Bid Express™ web site reflecting the latest addenda posted on the department's web site at:
<https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>
Use Expedite™ software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid Express™ web site to assure that the schedule of items is prepared properly.
- (2) Staple an 8 1/2 by 11 inch printout of the Expedite™ generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal, not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the Expedite™ generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

- (3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.
- (4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.
- (5) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:
 1. The check code printed on the bottom of the printout of the Expedite™ generated schedule of items is not the same on each page.
 2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.

3. The diskette or CD ROM is not submitted at the time and place the department designates.

C Waiver of Electronic Submittal

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

PROPOSAL BID BOND

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.

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 3700-20-80; Replace Existing Signals; Various Signalized Intersections; Various Highways; Milwaukee, Ozaukee and Waukesha Counties; 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, 2020 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 (20190618)

2. Scope of Work.

The work under this contract shall consist of traffic signal replacement, curb ramp replacement, loop detector replacement, pavement marking, signing and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

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

Provide the time frame for construction of the project within the 2020 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. 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.

General

Attend weekly scheduling meetings to discuss the near-term schedule activities, address any long-term schedule issues, and discuss any relevant technical issues. Develop a rolling three-week schedule identifying the previous week worked and a two week "look ahead". Provide sufficient detail to include actual and planned activities and all the subcontractors for offsite and construction activities, addressing all activities including ramp and lane closure schedules to be performed and identifying issues requiring engineering action or input. Subcontractors who have upcoming work shall attend the weekly progress meetings.

Nighttime work may be required for this project. Nighttime work is defined as 10:00 PM until 6:00 AM. The contractor is responsible for obtaining a nighttime working permit from the local municipalities. Nighttime work is only permitted for the removal and replacement of the loop detectors, including concrete surface repair and replacement, at the following locations: NB Frontage Rd, NB Wisconsin Ave, NB and SB STH 67 Off Ramps, EB and WB County Line Rd, and EB STH 33. Furnish any and all ordinance variances issued by the municipality or required permits to the engineer three working days before performing such work. Nighttime work will not be allowed without written approval from the engineer at least three working days in advance of the work during nighttime hours.

Coordinate the removal and replacement of the concrete steps and railings with the current resident and/or property owner of the properties at the NE, SW and NW quadrants of the intersection of STH 33 and CTH O at least seven calendar days prior to the commencement of the removal of the concrete steps and railings. Complete the removal and replacement of the concrete steps and railings within three calendar days. Coordinate with the current resident and/or property owner to ensure pedestrian access is maintained at all times.

Interim Completion Requirements

Upon commencement of work at an intersection, complete the work at that intersection within 40 working days. This applies to STH 59/164 and CTH Y/Racine Ave, STH 181 and County Line Rd, and STH 33 and CTH O.

If the contractor fails to complete the work at each of the intersections noted above within 40 working days of commencing work at that intersection, the department will assess the contractor \$2,000.00 in interim liquidated damages per intersection for each working day contract work remains incomplete beyond 40 working days. An entire working day will be charged for any period of time within a working day that the work at each intersection remains incomplete beyond 12:01 AM.

Upon commencement of work at the intersections of STH 16 and STH 67 NB and SB ramps, complete the work at both intersections within 50 working days.

If the contractor fails to complete the work at both of the intersections of STH 16 and STH 67 NB and SB ramps within 50 working days of commencing work at those intersections, the department will assess the contractor \$2,000.00 in interim liquidated damages per intersection for each working day contract work remains incomplete beyond 50 working days. An entire working day will be charged for any period of time within a working day that the work at each intersection remains incomplete beyond 12:01 AM.

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

4. Lane Rental Fee Assessment.

A General

The contract designates some lane closures to perform the work. The contractor will not incur a Lane Rental Fee Assessment for closing lanes during the allowable lane closure times. The contractor will incur a Lane Rental Fee Assessment for each lane closure outside of the allowable lane closure times. If a lane is obstructed at any time due to contractor operations, it is considered a closure. The purpose of lane rental is to enforce compliance of lane restrictions and discourage unnecessary closures.

The allowable lane closure times are shown in the Traffic article.

Submit the dates of the proposed lane, ramp, and roadway restrictions to the engineer as part of the progress schedule.

Coordinate lane, ramp, and roadway closures with any concurrent operations on adjacent roadways within 3 miles of the project. If other projects are in the vicinity of this project, coordinate lane closures to run concurrent with lane closures on adjacent projects when possible. When lane closures on adjacent projects extend into the limits of this project, Lane Rental Fee Assessments will only occur if the closure facilitates work under this contract.

B Lane Rental Fee Assessment

The Lane Rental Fee Assessment incurred for each lane closure, each ramp closure, and each full closure of a roadway, per direction of travel, is as follows:

- Night time- \$1,000.00 per lane, per direction of travel, per hour broken into 15 minute increments
- Off Peak- \$1,000.00 per lane, per direction of travel, per hour broken into 15 minute increments

The Lane Rental Fee Assessment represents a portion of the cost of the interference and inconvenience to the road users for each closure. All lane, roadway, or ramp closure event increments 15 minutes and less will be assessed as a 15-minute increment.

The engineer, or designated representative, will be the sole authority in determining time period length for the Lane Rental Fee Assessment.

Lane Rental Fee Assessments will not be assessed for closures due to crashes, accidents or emergencies not initiated by the contractor.

The department will assess Lane Rental Fee Assessment by the dollar under the administrative item Failing to Open Road to Traffic. The total dollar amount of Lane Rental Fee Assessment will be computed by multiplying the Lane Rental Assessment Rate by the number of 15-minute increments of each lane closure event as described above.

Lane Rental Fee Assessment will be in effect from the time of the Notice to Proceed until the department issues final acceptance. If interim completion time or contract time expires before the completion of specified work in the contract, additional liquidated damages will be assessed as specified in standard spec 108.11 or as specified within this contract.

stp-108-070 (20161130)

5. Traffic.

General

Place portable changeable message signs five calendar days prior to any full roadway closure and any ramp closure indicating the anticipated closures at locations designated on the plan or directed by the engineer. PCMS messages are to be approved by the engineer.

Do not park or store equipment, contractors' and personal vehicles, or construction materials within the clear zone or on any roadway carrying traffic during non-working hours except at locations and periods of time approved by the engineer.

Work zone traffic control devices and signs shall not be placed over or within 50 feet of the railroad right-of-way located 1000 feet west of the intersection of STH 33 and CTH O.

Sequencing/Staging

Complete all work as shown in the traffic control and staging plans and/or with the use of Standard Detail Drawings. All variations from the traffic control and staging plans shall be submitted for approval in writing at least 48 hours prior to any traffic control change.

Definitions

Close no more than one through lane and one turn lane at each approach at any one time, except during full roadway closures.

Shoulder closures are allowed at any time and shall be properly implemented per the standard detail drawings and contract specifications.

Single lane closures are permitted at all times except during the following peak hours on the following roadways:

EB and WB STH 16	4:00 PM - 6:00 PM	Monday - Friday
NB STH 59/164	6:00 AM - 8:00 AM	Monday - Friday
NB and SB STH 59/164	4:00 PM - 6:00 PM	Monday - Friday

Turn lane closures are permitted at all times except during the following peak hours on the following roadways:

SB STH 59/164 Left	2:00 PM - 7:00 PM	Monday - Friday
WB CTH Y Right	6:00 AM - 9:00 AM	Monday - Friday
	3:00 PM - 6:00 PM	Monday - Friday
EB CTH Y Left	6:00 AM - 9:00 AM	Monday - Friday
	3:00 PM - 6:00 PM	Monday - Friday
SB CTH O Left	6:00 AM - 9:00 AM	Monday - Friday
	3:00 PM - 6:00 PM	Monday - Friday

Ramp closures are permitted at all times except during the following peak hours on the following ramps:

NB and SB STH 67 On and Off	7:00 AM - 9:00 AM	Monday - Friday
	3:00 PM - 6:00 PM	Monday - Friday

Full closures ⁽¹⁾ are only permitted during the following times for the following roadways:

NB Frontage Rd	Anytime - No Peak Hours ⁽²⁾	
NB Wisconsin Ave	Anytime - No Peak Hours ⁽²⁾	
EB and WB County Line Rd	9:00 PM - 6:00 AM	Sunday - Thursday Nights
	9:00 PM - 8:00 AM	Friday - Saturday Nights
EB STH 33	9:00 PM - 6:00 AM	Sunday - Thursday Nights
	9:00 PM - 8:00 AM	Friday - Saturday Nights

(1) No roadway may have a full closure lasting more than 5 calendar days total, whether the calendar days are consecutive or separate

(2) The NB Frontage Rd and NB Wisconsin Ave approach to STH 16 may not be closed concurrently

Re-open lanes to traffic immediately upon completion of the construction operations that require their closure, including turn lanes.

Traffic Restrictions

Maintain access at all times within the project limits at all driveways for residents and businesses and along all roadways and at all driveways for emergency vehicles. Maintain existing pedestrian access at all times including access to all buildings.

STH 59/164 is considered a high clearance route, and a vertical clearance of up to 20 feet in height is required to be maintained.

The Village of Saukville has a concert series at Veterans Park the 2nd and 4th Wednesday of every month during the months of June, July and August. The Village of Saukville also has a farmer's market that closes off East Green Bay Avenue by Veterans Park every Sunday in June, July and August. Coordinate with the engineer and Village of Saukville seven calendar days prior to the commencement of any construction work at the intersection of STH 33 and CTH O to ensure traffic control and lane closures don't prohibit the operations of these events.

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

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

6. **Holiday Work Restrictions.**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 16, STH 67, STH 59/164, CTH Y, STH 181, County Line Rd, STH 33 and CTH O traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 22, 2020 to 6:00 AM Tuesday, May 26, 2020 for Memorial Day;
- From noon Thursday, July 2, 2020 to 6:00 AM Monday, July 6, 2020 for Independence Day;
- From noon Friday, September 4, 2020 to 6:00 AM Tuesday, September 8, 2020 for Labor Day.

stp-107-005 (20181119)

7. **Utilities.**

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

stp-107-065 (20080501)

Underground and overhead utility facilities are located within the project limits. Utility adjustments are not anticipated for this construction project. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

When utility adjustments become necessary during construction the utility owner will make the required adjustments in coordination with the contractor's construction operation.

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

The following utilities are adjusted as part of this contract:

WisDOT Lighting

WisDOT Signals

The following utilities have facilities within the construction limits:

The **Waukesha Water Utility** has water valve boxes at the STH 59/164 (Les Paul Parkway) and CTH Y (Racine Ave.) intersection that will be adjusted during construction by city forces.

Coordinate this work by contacting the city seven days in advance of needing the adjustments.

The city will need one-half day to adjust each valve boxes. Contact the City of Waukesha Water Dept. at (262) 521-5272.

The following utilities have facilities within the construction limits, however, **no adjustments are anticipated:**

- ANR Pipeline Co
- **AT&T Legacy**
- **AT&T Local**
- **AT&T Wisconsin**
- **Charter Communications**
- **City of Mequon Water**
- **City of Milwaukee Electric**
- **City of Milwaukee Sewer**
- **City of Milwaukee Water**

- **City of Oconomowoc Electric**
- **City of Oconomowoc Sewer**
- **City of Oconomowoc Water**
- **City of Waukesha Sewer**
- **Level 3 Communications**
- **Port Washington/Saukville School District**
- **WisDOT STOC**
- **Village of Saukville Water**
- **Village of Saukville Sewer**
- **Waukesha Water Utility**
- **We Energies Electric**
- **We Energies Gas**

We Energies Electric has facilities within the construction limits. It is imperative that the highway contractor contact We Energies if removing any electrical underground cables, to verify that they have been discontinued and carry no electrical current. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification. We Energies Electric Dispatch #1 (800) 662-4797.

We Energies Gas has facilities within the construction limits. It is imperative that the highway contractor contact We Energies if removing any gas facilities, to verify that they have been discontinued and carry no natural gas. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification. We Energies Gas Dispatch #1 (800) 261-5325.

8. **Other Contracts.**

There is one construction project (Project 1000-51-72) that may run concurrently with this project near the intersection of STH 33 and CTH O. Coordinate schedules, traffic control and staging, and all other project work with Project 1000-51-72 to minimize conflicts. Project 1000-51-72 information is as follows:

Project ID: 1000-51-72
 Highway: Various Highways
 Limits: Various Bridges
 County: Southeast Region Wide
 Contact: Brian Pluemer
 Project Manager
 Wisconsin Department of Transportation
 (262) 548-6721
 brian.pluemer@dot.wi.gov

Type of work: Bridge Deck Overlay

9. **Erosion Control.**

Supplement standard spec 107.20 with the following:

Erosion control best management practices (BMP's) shown on the plans are at suggested locations. The actual locations will be determined by the contractor's ECIP and by the engineer. Include dust control and each dewatering or by-pass (mechanical pumping) operation in the ECIP submittal. The ECIP will supplement information shown on the plans and not reproduce it. The ECIP will identify how to implement the project's erosion control plan. ECIP will demonstrate timely and diligently staged operations, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the

subsequent grading, paving, re-application of top soil, and restoration of permanent vegetation to minimize the period of exposure to possible erosion.

Provide the ECIP 14 days prior to the pre-construction meeting. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison. Do not implement the ECIP without department approval and perform all work conforming to the approved ECIP.

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

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

Re-apply topsoil on graded and disturbed areas, as the engineer directs, immediately after the grading is completed within those areas. Seed, fertilize, and mulch/erosion mat top-soiled areas, as the engineer directs, within five days after placement of topsoil. If graded and disturbed areas are left not completed and exposed for more than seven days, seed those areas with temporary seed and mulch within three days after any disturbance.

When performing saw cutting operations, concrete or asphalt slurry shall be squeegeed off to the shoulder gravel or shoveled behind the curb into the gravel road base. Slurry of any kind shall not be allowed into storm sewers, ditches, waterways or wetlands.

Maintaining Drainage

Maintain drainage at and through worksite during construction conforming to standard spec 107.20, 204.3.2.1(3), 205.3.3 and 520.3.1(2). Use existing storm sewers, existing culvert pipes, existing drainage channels, temporary culvert pipes, or temporary drainage channels to maintain existing surface and pipe drainage. Pumps may be required to drain the surface, pipe, and structure discharges during construction. Costs for furnishing, operating, and maintaining the pumps is considered incidental to the contract.

SER-107-003 (20161220)

10. Notice to Contractor – Airport Operating Restrictions.

A Notice of Actual Construction or Alteration is required to be e-filed with the FAA (Form 7460-2). This requirement is required anytime the project is abandoned or within five days after the construction reaches its greatest height. Coordinate with the engineer to complete this requirement.

11. Notice to Contractor – Traffic Signal Equipment Lead Time.

Order traffic signal equipment as soon as possible to assure the equipment is procured in a timely fashion and, therefore, installed, inspected, and ready for turn-on at the required date. Traffic Signals, General.

Note that failure to comply with the state standards and specifications may result in the cost of the corrections to be made at the contractor's expense. Also, any additional disruption of department-owned facilities shall be repaired or relocated as needed at the contractor's expense.

Notify the department's Electrical Field Unit at (414) 266-1170 at least three weeks prior to the beginning of the traffic signal work.

Furnish the engineer with material lists and specifications of all traffic control equipment for approval prior to installation.

12. General Requirements for Electrical Work.

Add the following to standard spec 651.3.3 (3):

Notify the department's Electrical Field Unit at (414) 266-1170 to coordinate the inspection for state owned traffic signals. The department's Region Electrical personnel will perform the inspection for the state owned and maintained traffic signals.

Requests for signal inspection will include a completed SE Region Traffic Signal Checklist.

13. Village of Saukville – Curb Ramp Detectable Warning Fields.

Curb ramp detectable warning fields to be provided by the Village of Saukville for the curb ramps at the intersection of STH 33 and CTH O only. Installation of curb ramp detectable warning fields are incidental to the item Concrete Sidewalk 5-inch. Install curb ramp detectable warning fields according to standard spec 602. Provide at least a seven calendar day notice prior to the commencement of any curb ramp installation activities to the Village of Saukville contact:

Ray deBruijn
DPW Superintendent
Village of Saukville
649 S Main St
Saukville, WI 53080
(262) 284-0545
rdebruijn@village.saukville.wi.us

14. Archaeological Site.

47OZ48 (Wahmeteeagoosh) site is located approximately Station 85+50 to End Project Limits, LT and RT within the limits shown on the plans at the intersection of STH 33 and CTH O/Mill St.

Notify the Bureau of Technical Services – Environmental Process and Document Section (BTS-EPDS) at (608) 266-0099 at least two weeks before commencement of any ground disturbing activities. BTS-EPDS will determine if a qualified archaeologist will need to be on site during construction of this area.

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

stp-107-220 (20180628)

**15. Removing Traffic Signals STH 16 & STH 67 Southbound Ramps, Item 204.9105.S.01;
Removing Traffic Signals STH 16 & STH 67 Northbound Ramps, Item 204.9105.S.02;
Removing Traffic Signals STH 33 & CTH O, Item 204.9105.S.03;
Removing Traffic Signals STH 59/164 & CTH Y, Item 204.9105.S.04;
Removing Traffic Signals STH 181 & County Line Road, Item 204.9105.S.05.**

A Description

This special provision describes removing existing traffic signals as shown on the plans, according to the pertinent provisions of standard spec 204, and as hereinafter provided. Specific removal items are noted in the plans.

B (Vacant)

C Construction

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

Notify the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to the removal of the traffic signals. Complete the removal work as soon as possible following shut down of this equipment.

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

Remove all standards and poles per plan from their concrete footings and disassemble out of traffic. Remove the transformer bases from each pole. Remove the signal heads, emergency vehicle preemption heads (evp), mast arms, luminaires, wiring/cabling, and traffic signal mounting devices from each signal standard, arm or pole. Ensure that all access hand-hole doors and all associated hardware remain intact. Dispose of the underground signal cable, internal wires and street lighting cable off the state right-of-way. Deliver the remaining materials to the West Allis Electrical Service Facility at 935 South 60th Street, West Allis, Milwaukee County. Contact the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to delivery to make arrangements.

DOT forces shall remove the signal cabinet from the footing. The signal cabinet and associated signal cabinet equipment will be removed from the site by DOT forces and will remain the property of the department.

D Measurement

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

E Payment

Add the following to standard specification 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9105.S.01	Removing Traffic Signals STH 16 & STH 67 Southbound Ramps	LS
204.9105.S.02	Removing Traffic Signals STH 16 & STH 67 Northbound Ramps	LS
204.9105.S.03	Removing Traffic Signals STH 33 & CTH O	LS
204.9105.S.04	Removing Traffic Signals STH 59/164 & CTH Y	LS
204.9105.S.05	Removing Traffic Signals STH 181 & County Line Road	LS

- 16. Removing Loop Detector Wire and Lead-in Cable STH 16 & STH 67 SB Ramps, Item 204.9105.S.06;
Removing Loop Detector Wire and Lead-in Cable STH 16 & STH 67 NB Ramps, Item 204.9105.S.07;
Removing Loop Detector Wire and Lead-in Cable STH 33 & CTH O, Item 204.9105.S.08;
Removing Loop Detector Wire and Lead-in Cable STH 59/164 & CTH Y, Item 204.9105.S.09;
Removing Loop Detector Wire and Lead-in Cable STH 181 & County Line Road, Item 204.9105.S.10.**

A Description

This special provision describes removing loop detector wire and lead-in cable as shown on the plans, according to the pertinent provisions of 204 of the standard specs, and as hereinafter provided.

B (Vacant)

C Construction

Notify the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to the removal of the loop detector wire and lead-in cable.

Remove and dispose of detector lead-in cable including loop wire for abandoned loops off the project site.

D Measurement

The department will measure Remove Loop Detector Wire and Lead-in Cable as a single lump sum unit for each intersection, acceptably completed.

E Payment

Add the following standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9105.S.06	Removing Loop Detector Wire and Lead-In Cable STH 16 & STH 67 SB Ramps	LS
204.9105.S.07	Removing Loop Detector Wire and Lead-In Cable STH 16 & STH 67 NB Ramps	LS
204.9105.S.08	Removing Loop Detector Wire and Lead-In Cable STH 33 & CTH O	LS
204.9105.S.09	Removing Loop Detector Wire and Lead-In Cable STH 59/164 & CTH Y	LS
204.9105.S.10	Removing Loop Detector Wire and Lead-In Cable STH 181 & County Line Road	LS

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

A Description

A.1 General

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

Advanced Disposal Glacier Ridge Landfill
N7296 Highway V
Horicon, WI 53032
(920) 387-0987

Waste Management Orchard Ridge Landfill
W124 N9355 Boundary Rd
Menomonee Falls, WI 53051
(866) 909-4458

Advanced Disposal Emerald Park Landfill
W124 S10629 124th St
Muskego, WI 53150
(414) 529-1360

Waste Management Metro Landfill
10712 S 124th St
Franklin, WI 53132
(414) 529-6180

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

A.2 Notice to the Contractor – Contaminated Soil Locations

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

1. STH 33 from Station 84+25 to 84+85, from reference line to project limits LT, from 10 feet to 12 feet bgs. Soil contains PVOCs and must be managed. Approximately 0.52 cubic yards (approximately 0.89 tons at an estimated 1.7 tons per cubic yard) of soil will be excavated from this location.
2. STH 59/164 from Station 176+00 to 176+75, from 50 feet RT of reference line to 125 feet RT of reference line within project limits, from 6 feet to 8 feet bgs. Soil contains PVOCs and must be managed. Approximately 0.52 cubic yards (approximately 0.89 tons at an estimated 1.7 tons per cubic yard) of soil will be excavated from this location.

3. STH 59/164 from Station 176+75 to 178+00, from 50 feet RT of reference line to 125 feet RT of reference line at Station 176+75 and 100 feet RT of reference line at Station 178+00, from 1 foot to 6 feet bgs. Soil contains PVOs and arsenic and must be managed. Approximately 5.05 cubic yards (approximately 8.58 tons at an estimated 1.7 tons per cubic yard) of soil will be excavated from this location.

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

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

Name: Mr. Andrew Malsom
Address: 141 NW Barstow St, P.O. Box 798, Waukesha, WI 53187-0798
Phone: (262) 548-6705
Fax: (262) 548-6891
e-mail: Andrew.Malsom@dot.wi.gov

A.3 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: O'Brien & Gere Engineers, Inc. (OBG)
Address: 234 W Florida St, Fifth Floor, Milwaukee, WI 53204
Contact: Mr. Mark Walter, PE
Phone: (414) 837-3563
Fax: (414) 837-3608
e-mail: Mark.Walter@obg.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the bioremediation facility;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation facility.

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

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

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

A.4 Health and Safety Requirements

Add the following to standard spec 107.1:

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

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

B (Vacant)

C Construction

Add the following to standard spec 205.3:

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

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 15 cubic yards excavated.

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

D Measurement

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

E Payment

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

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

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

stp-205-003 (20150630)

18. Coloring Concrete Custom, Item 405.0200.

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

Replace standard spec 405.2.1.1(1) with the following:

- (1) Integrally color concrete using non-fading pigments conforming to ASTM C979.
 - For color similar to Solomon "Terra Cotta" or approved equal: use synthetic iron oxides. Match the concrete color in reasonably close conformance with Solomon "Terra Cotta" or approved equal color, which is similar to Federal Standard 595 - FS 32356.

Replace standard spec 405.2.1.1(3) with the following:

- (3) The department will accept the color based on comparison to color samples available for viewing at the SE quadrant of the intersection of STH 33 and CTH O (Veterans Park) in the Village of Saukville, WI.

stp-405-020 (20160607)

19. Field Office.

Two field offices have been identified as part of this contract. The WisDOT SE Region Office at 141 NW Barstow St, Waukesha, WI 53187 will serve the intersections of STH 16 and STH 67 NB ramps, STH 16 and STH 67 SB ramps, and STH 59/164 and CTH Y/Racine Ave. The WisDOT field office as part of the STH 60 construction project (ID 2310-14-70) with the location to be determined at a later date will serve the intersections of STH 181 and County Line Rd and STH 33 and CTH O. Meetings can be held at either field office. Contractor to coordinate with the contractor of project 2310-14-70 to schedule weekly meetings so they don't conflict.

20. Nighttime Work Lighting-Stationary.

A Description

This special provision describes furnishing portable lighting as necessary to complete nighttime work. Nighttime operations consist of work specifically scheduled to occur after sunset and before sunrise.

B (Vacant)

C Construction

C.1 General

This provision shall apply when providing, maintaining, moving, and removing portable light towers and equipment-mounted lighting fixtures for nighttime stationary work operations, for the duration of nighttime work on the contract.

At least 14 days before the nighttime work, furnish a lighting plan to the engineer for review and acceptance. Address the following in the plan:

1. Layout, including location of portable lighting – lateral placement, height, and spacing. Clearly show on the layout the location of all lights necessary for every aspect of work to be done at night.
2. Specifications, brochures, and technical data of all lighting equipment to be used.
3. The details on how the luminaires will be attached.
4. Electrical power source information.
5. Details on the louvers, shields, or methods to be employed to reduce glare.
6. Lighting calculations. Provide illumination with average to minimum uniformity ratio of 5:1 or less throughout the work area.
7. Detail information on any other auxiliary equipment.

C.2 Portable Lighting

Provide portable lighting that is sturdy and free standing and does not require any guy wires, braces, or any other attachments. Furnish portable lighting capable of being moved as necessary to keep up with the construction project. Position the portable lighting and trailers to minimize the risk of being impacted by traffic on the roadway or by construction traffic or equipment. Provide lightning protection for the portable lighting. Portable lighting shall withstand up to 60 mph wind velocity.

If portable generators are used as a power source, furnish adequate power to operate all required lighting equipment without any interruption during the nighttime work. Provide wiring that is weatherproof and installed according to local, state, federal (NECA and OSHA) requirements. Equip all power sources with a ground-fault circuit interrupter to prevent electrical shock.

C.3 Light Level and Uniformity

Position (spacing and mounting height) the luminaires to provide illumination with an average to minimum uniformity ratio of 5:1 or less throughout the work area.

Illuminate the area as necessary to incorporate construction vehicles, equipment, and personnel activities.

C.4 Glare Control

Design, install, and operate all lighting supplied under these specifications to minimize or avoid glare that interferes with all traffic on the roadway or that causes annoyance or discomfort for properties adjoining the roadway. Locate, aim, and adjust the luminaires to provide the adequate level of illumination and the specified uniformity in the work area without the creation of objectionable glare.

Provide louvers, shields, or visors, as needed, to reduce any objectionable levels of glare. As a minimum, ensure the following requirements are met to avoid objectionable glare on the roadways open to traffic in either direction or for adjoining properties:

1. Aim tower-mounted luminaires, either parallel or perpendicular to the roadway, so as to minimize light aimed toward approaching traffic.
2. Aim all luminaires such that the center of beam axis is no greater than 60 degrees above vertical (straight down).

If lighting does not meet above-mentioned criteria, adjust the lighting within 24 hours.

C.5 Continuous Operation

Provide and have available sufficient fuel, spare lamps, generators, and qualified personnel to ensure that the lights will operate continuously during nighttime operation. In the event of any failure of the lighting system, discontinue the operation until the adequate level of illumination is restored. Move and remove lighting as necessary.

D (Vacant)

E Payment

Costs for furnishing a lighting plan, and for providing, maintaining, moving, and removing portable lighting, tower mounted lighting, and equipment-mounted lighting required under this special provision are incidental to the contract.

stp-643-010 (20100709)

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

A Description

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

B Materials

Use conduit rigid non-metallic schedule 40, conduit of correct size as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole for the entering conduit(s) at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place. Place 2" PVC pipe cap on both ends with 7,8 1/4" holes drilled in each end.

D Measurement

The department will measure Install Conduit Into Existing Item by the unit, acceptably installed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five or conduits entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
652.0700.S	Install Conduit Into Existing Item	EACH

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.

22. Conduit.

Add the following to standard spec 652.3.1.1:

- (6) The installation of conduit under existing curb and gutter is incidental to the installation of all conduit bid items. This includes conduit items not directionally bored. Repair any damage to curb and gutter caused by this item of work to match pre-construction conditions. No additional payment will be made for repair to areas damaged by the contractor's operations.

Replace standard spec 652.5 (4) with the following:

Payment for the Conduit Rigid Nonmetallic bid items also includes pull box drain duct the engineer directs under the 653 Pull Box bid items and repair of any damaged curb and gutter caused by contractor operations during item installation.

23. Removing Pull Boxes.

Replace standard spec 653.3 (4) with the following:

Under the removing pull boxes items, excavate and remove existing pull boxes. Backfill with material similar to the surrounding material. Dispose of surplus or unsuitable material as specified under standard spec 205.3.12.

Some locations as identified in the plans require pull box frame and lid removal only.

24. Electrical Service Meter Breaker Pedestal.

Add the following to standard spec 656.2.3:

The department will be responsible for the electric service installation request for any department maintained facility.

Electric utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

Add the following to standard spec 656.3.4:

Install the cabinet base and meter breaker pedestal first, so the electric utility company can install the service lateral. Finish grade the service trench, replace topsoil that is lost or contaminated with other materials, fertilize, seed, and mulch all areas that are disturbed by the electric utility company.

Add the following to standard spec 656.5(3):

Payment for grading the service trench, replacing topsoil, fertilizer, seed, and mulch will be incidental to this work unless the bid items are in the contract and then they will be paid for at the contract price.

25. Signal Housings.

Replace standard spec 658.2(4) with the following:

For pedestrian signal faces: furnish polycarbonate resin housings, doors, and visors. Use yellow, Federal Standard 595 – FS13538, housings and dull black door faces and visors. For 16-inch heads, mount a z-crate visor and gasket to the door with stainless steel tabs. Drill the housing for top and bottom pipe mounting with the ability to rotate 270 degrees on the poly mounting brackets.

26. Pedestrian Push Buttons.

Replace standard spec 658.2(5) with the following:

For pedestrian push buttons: furnish freeze-proof ADA compliant pedestrian push buttons made by a department-approved manufacturer. The contractor shall place a Size 1, Type H reflective (R10-3EL, R, D) sign sticker (per state sign plate), message series – B, directly above each push button. Include a directional arrow or arrows on the sign as the plans show.

27. Traffic Signal Mounting Hardware.

Add the following to standard spec 658.2(7):

Use an approved type of pole or standard vertical mounting brackets/clamps for signal faces from an approved manufacturer. Pedestrian traffic signal heads mounted in the median shall use federal yellow aluminum side of pole 2-way upper and lower arm assemblies providing 16 ½-inch center to center spacing.

28. Traffic Signal Faces and Pedestrian Signal Face 16-Inch.

Add the following to standard spec 658.3:

⁽⁵⁾ Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. Connect the neutral conductors to the terminal strip. Be certain to twist wires prior to installing the wire nuts. All wire nuts must be installed facing up to prevent the entrance of water.

29. Temporary Traffic Signals for Intersections.

Replace standard spec 661.2.1(1) with the following:

Furnish control cabinet, controller, and control equipment. Provide a cabinet with a Corbin #2 door lock and an access door that allows placing the controller in emergency flash. Provide keys to the access door to the engineer and law enforcement agencies as required. Also provide a manual control accessible by the police. Supply a controller capable of executing the timing program supplied in this contract for this temporary traffic signal. Test traffic signal control cabinets before installation. Provide primary and secondary temporary traffic signal contact names and phone numbers who will be responsible for implementing temporary traffic signal timing changes. The department may request traffic signal timing changes to an approved timing plan during the project. Implement any approved timing plan change within 24 hours upon notification of the change. Record the times of operation of the timing change and provide this information to the department.

Add the following to standard spec 661.2.1:

⁽⁶⁾ Furnish pedestrian signal faces as shown in the plans, according to standard spec 658.2.3.

⁽⁷⁾ Furnish pedestrian push buttons as shown in the plans, according to standard spec 658.2.5.

Add the following to standard spec 661.3.1:

⁽⁴⁾ Install pedestrian signal faces on the wood pole or wood post as the plans show. Maintain the height to the bottom of the pedestrian signal face as indicated in SDD Traffic Signal Standard Poly Bracket Mountings (Typical) 13 FT. or 15 FT.

⁽⁵⁾ Install pedestrian push buttons according to standard spec 658.3. Mount push buttons so that they are wheelchair accessible from the temporary crossing areas and according to MUTCD Chapter 4.

Replace standard spec 661.3.1.1(2) with the following:

⁽²⁾ Place the pole in the ground to no less than 1/5 of the pole's length as the plans show. Sawcut existing pavement and concrete curb and gutter as needed to install the wood poles and guy wire anchors. Sawcut existing pavement according to the pertinent provisions in standard spec 690.3. Remove pavement and concrete curb and gutter as shown on the plans and if needed to install the wood poles and guy wire anchors. Remove only as much pavement as needed to install the wood poles. Remove pavement and curb and gutter according to the pertinent provisions in standard spec 204.3, Construction. Hold any wood poles in place and/or move wood poles during construction due to conflicts with proposed work. All wood poles shall be plumb and level.

Add the following to standard spec 661.3.1.4:

⁽⁴⁾ Arrange for "every other week" inspections with the engineer to check the height of the span wire above the roadways to ensure that the bottom of the traffic signal heads remain within the minimum and maximum heights allowed above the roadway. Make all height adjustments within 1-hour of an inspection indicating that adjustments are required. Notify the engineer in writing upon completion of all necessary adjustments. Maintain a written log to properly document the date of each "every other week" inspection, the heights above the roadway, the roadway clearance after adjustments have been made and

acceptance by the engineer. Provide all documentation related to the “every other week” span wire height checks as well as all records related to maintenance performed on the temporary traffic signal installations to the engineer.

Replace standard spec 661.5(2) with the following:

Payment for the Temporary Traffic Signals for Intersections bid item is full compensation for providing, operating, maintaining, and repairing the complete temporary installation; and for removal. Furnishing, installing, and maintaining temporary vehicle detection equipment shall be paid for under a separate item. Payment also includes the following:

1. Furnishing and installing the replacement equipment.
2. All utility charges for installation, disconnection, and energy service through project completion.
3. The cost of delivery and pick-up of the cabinet assemblies for department testing.
4. Traffic signal controller programming and timings (including timing changes).

Payment is full compensation for drilling holes; furnishing and installing all materials, including bricks, and coarse aggregate; for excavation, bedding, and backfilling, including any sand or other required materials; furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; for making inspections; for checking and/or adjusting the temporary detection zones on an every other week basis; for maintaining and changing the temporary detection zones to match the plans, traffic control, and construction staging; for relocating the temporary detection sensors due to construction activities, if required; for periodically cleaning all temporary vehicle detector equipment; for cleaning up and properly disposing of waste; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

30. Concrete Base Type 10 Special, Item SPV.0060.01.

A Description

This special provision describes the installation of concrete base Type 10 Special.

B Materials

Furnish bar steel reinforcement conforming to standard spec 505.2.4.

Furnish grade A, A-FA, A-S, A-T, A-IS, A-IP, or A-IT concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for class III ancillary concrete as specified in standard spec 716.

Furnish anchor rods, anchor rod templates, nuts, and washers conforming to standard spec 641.2.2.3

Use schedule 40 PVC electrical conduit conforming to standard spec 652.

C Construction

Construct drilled shaft concrete bases conforming to standard spec 636.3. Cure exposed portions of concrete footings as specified in standard spec 502.3.8.1. Wait until the concrete has attained 3500 psi compressive strength or seven equivalent days as specified in standard spec 502.3.10 before erecting any portion of the structure on the footing.

Follow the guidelines outlined in Concrete Base Type 10 Special detail.

D Measurement

The department will measure the Concrete Base Type 10 Special as each individual base, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Concrete Base Type 10 Special	EACH

Payment is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor rods, anchor rod templates, nuts, and washers; for bar steel reinforcement, if required; for excavating, backfilling, and disposing of surplus materials.

31. **Install Poles Type 10, Item SPV.0060.02;**
Install Poles Type 10 Special, Item SPV.0060.03;
Install Poles Type 12, Item SPV.0060.04;
Install Poles Type 13, Item SPV.0060.05;
Install Poles Type 13-Over Height, Item SPV.0060.06;
Install Monotube Arms 15-FT, Item SPV.0060.07;
Install Monotube Arms 25-FT, Item SPV.0060.08;
Install Monotube Arms 30-FT, Item SPV.0060.09;
Install Monotube Arms 35-FT, Item SPV.0060.10;
Install Monotube Arms 40-FT, Item SPV.0060.11;
Install Monotube Arms 45-FT, Item SPV.0060.12;
Install Monotube Arms 50-FT, Item SPV.0060.13;
Install Monotube Arms 55-FT, Item SPV.0060.14;
Install Luminaire Arms Steel 15-FT, Item SPV.0060.15.

A Description

This special provision describes installing state furnished materials conforming to standard spec 657, details shown in the plans, and as modified in this special provision.

B Materials

The department will furnish the monotube poles, monotube arms and luminaire arms. Provide any other necessary material required to complete the installation as the plans show.

C Construction

Install equipment according to standard spec 657.3.

D Measurement

The department will measure Install [Equipment] at the contract unit price, 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	Install Poles Type 10	EACH
SPV.0060.03	Install Poles Type 10 Special	EACH
SPV.0060.04	Install Poles Type 12	EACH
SPV.0060.05	Install Poles Type 13	EACH
SPV.0060.06	Install Poles Type 13-Over Height	EACH
SPV.0060.07	Install Monotube Arms 15-FT	EACH
SPV.0060.08	Install Monotube Arms 25-FT	EACH
SPV.0060.09	Install Monotube Arms 30-FT	EACH
SPV.0060.10	Install Monotube Arms 35-FT	EACH
SPV.0060.11	Install Monotube Arms 40-FT	EACH
SPV.0060.12	Install Monotube Arms 45-FT	EACH
SPV.0060.13	Install Monotube Arms 50-FT	EACH
SPV.0060.14	Install Monotube Arms 55-FT	EACH
SPV.0060.15	Install Luminaire Arms Steel 15-FT	EACH

Payment for the Install Poles bid items is full compensation for installing department furnished poles and for providing grounding lugs, fittings, shims, hardware, and other required components the department does not furnish.

Payment for the Install Monotube Arms and Install Luminaire Arms bid items is full compensation for installing department furnished arms; for providing high-strength bolt/nut/washer assemblies and DTIs including those required for testing; and for providing related mounting hardware, leveling shims, and other required components the department does not furnish.

32. Pull Boxes Steel Frames & Lids, Item SPV.0060.16.

A Description

This special provision describes furnishing and installing new pull box frames and lids onto existing pull box structures as shown on the plans and according to the pertinent requirements of the standard specifications and as hereinafter provided.

B Materials

Furnish manhole frames and solid lids conforming to standard spec 611.2.

C Construction

Provide pull boxes with manhole frames and solid lids to match the size of the existing corrugated steel pipe. The contractor may extend pull boxes as the plans show using the same material as the pull box. Saw extensions parallel to the annular ring and clamp to the pull box using a band manufactured for this purpose. Excavate, place coarse aggregate drain material, and backfill as the plans show. Dispose of surplus or unsuitable material as specified under standard spec 205.3.12. Use covers stamped "WISDOT ITS" for communications pull boxes or "ELECTRIC" for other pull boxes.

D Measurement

The department will measure Pull Boxes Steel Frames & Lids as each frame and lid pair, properly furnished and installed in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.16	Pull Boxes Steel Frames & Lids	EACH

Payment is full compensation for properly furnishing and installing each frame and lid pair in place; for any excavation and backfill required to accommodate installation; and for site restoration.

The department will pay separately for removal of the existing pull box frame and lid is paid as a separate item.

33. Expose Existing Utility, Item SPV.0060.17.

A Description

The work includes exposing existing utilities and intercepting conduit as shown in the plans and preparing the exposed location for rerouting modifications.

B Materials

Furnish granular backfill that conforms to standard spec 209.

C Construction

General

Obtain engineer approval prior to performing the work, submitting all requests for exposing existing utilities in writing. Coordinate utility exposures with the engineer and notify the utility owner or their agents of this work two working days in advance so that they may be present when the work commences.

Excavation

Expose all utility locations within a given location to a minimum depth of 18-inches below the bottom of each utility. Excavate in a manner that protects the integrity of the utilities and prevents any damage to wrappings or protective coatings such as by any mechanical method or hand digging. Notify the utility owner promptly if damage or interruption of service occurs. Repair all damage caused to such utilities resulting from negligence or carelessness at own expense.

Identify horizontal locations of each exposed utility. The utility location shall remain exposed and available for visual inspection until the completion of all work in a given location. If the utility shall remain exposed overnight or for prolonged periods of time, protect the location with traffic-rated steel plating, safety barriers, and all necessary traffic control devices that may be required under applicable standards or as directed by the engineer.

Backfilling

Upon completion of the utility exposure, restore the location in kind to its original condition. Use granular backfill, conforming to standard spec 209, to backfill the exposed utility locations to the subgrade elevation except for areas located within local streets. All granular material placed to an elevation of 18-inches above each exposed utility shall consist substantially of sand with all particles retained on a one-inch (25.0 mm) sieve removed. The remaining granular material shall conform to the specifications for backfill for trench excavation. Alternate restoration methods may be used upon written approval from the engineer.

Documentation

Provide documentation to the engineer and include sketches of the utility locations tied to known features in the plans. Document the size and/or diameter, composition, and a description of each utility and the location of the elevation with respect to each utility noted. Supply digital photographs of the uncovered utility to the engineer in .jpeg format for future reference.

D Measurement

The department will measure Expose Existing Utility as a unit for each location, acceptably completed. A location may have multiple utilities located within the same exposure area. An exposure area will include all utilities within 6 lateral feet of each other, and payment will only be made for one unit regardless of the number of utilities exposed. Payment is based on a single unit of work for each 6-foot increment of exposure measured vertically from the existing ground elevation located above the existing utility to a point 18 inches below the exposed utility.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.17	Expose Existing Utility	EACH

Expose Existing Utility, as measured above, is full compensation for furnishing all excavation, and removing; for disposing of all materials; for locating all utilities within each respective location; for providing documentation and photographs of utility locations to the engineer; for furnishing all maintenance of the location during construction; for furnishing all traffic control, safety barriers, and steel plating required.

34. Abandoning Pull Boxes, Item SPV.0060.18.

A Description

This special provision describes abandoning pull boxes used by the existing traffic signal equipment as shown on the plans and according to the pertinent requirements of the standard specifications and as hereinafter provided.

B Materials

Furnish concrete material according to standard spec 501.3.1.3. Provide construction materials as necessary to repair and restore adjacent areas to pre-construction conditions.

C Construction

For pull boxes within the existing roadway:

Remove the existing cover and rim and fill with high-early strength concrete according to standard spec 501.3.1.3. Remove and dispose of any existing wiring (paid as a separate item). Repair any damage to existing pavement to match pre-construction conditions. No additional payment will be made for repair to areas damaged by the contractor's operations.

For pull boxes outside of the existing roadway:

Leave the existing pull box and frame in place and fill with any grade concrete according to standard spec 501.3.1.3. Leave pull box cover in place. Remove and dispose of any existing wiring (paid as a separate item). Repair any damage to curb and gutter, curb ramps, or sidewalk caused by this item of work to match pre-construction conditions. No additional payment will be made for repair to areas damaged by the contractor's operations.

D Measurement

The department will measure Abandoning Pull Boxes as each pull box, properly abandoned in place.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.18	Abandoning Pull Boxes	EACH

Payment is full compensation for properly abandoning each pull box in place; for providing and filling each pull box with concrete; for repairing any damage to curb and gutter, curb ramps, or sidewalk caused by construction; and for site restoration.

35. Concrete Curb and Gutter Variable Width Type A, Item SPV.0090.01.

A Description

This special provision describes constructing concrete curb and gutter according to standard spec 601 and as shown in the plans.

B Materials

Furnish materials conforming to standard spec 601.2.

C Construction

Construct according to standard spec 601.3 and as shown in the plans.

D Measurement

The department will measure Concrete Curb and Gutter Variable Width Type A by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Concrete Curb and Gutter Variable Width Type A	LF

Payment is full compensation for conforming to standard spec 601.5.

36. Removing Railing, Item SPV.0090.02.

A Description

This special provision describes the removal of existing railing, and delivery to the property owner.

B Materials (Vacant)

C Construction

Take all necessary care and precautions to ensure the railing is not damaged during removal. Once removal has started, the contractor is responsible for any damage to any components of the railing. It is the contractor's responsibility to repair or replace any damaged components at no additional cost to the department. Provide all railing components back to the property owner.

Repair any concrete to remain where the existing railing attached to the concrete with a product approved by the engineer.

D Measurement

The department will measure Removing Railing 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	Removing Railing	LF

Payment is full compensation for removing all components of the railing; for repairing any concrete to remain where the existing railing attached to the concrete; and delivery to the property owner. Replacement of all contractor damaged parts will not be measured for payment.

37. **Transport & Install State Furnished Traffic Signal Cabinet STH 16 & STH 67 SB Ramps, Item SPV.0105.01;**
Transport & Install State Furnished Traffic Signal Cabinet STH 16 & STH 67 NB Ramps, Item SPV.0105.02;
Transport & Install State Furnished Traffic Signal Cabinet STH 33 & CTH O, Item SPV.0105.03;
Transport & Install State Furnished Traffic Signal Cabinet STH 59/164 & CTH Y, Item SPV.0105.04;
Transport & Install State Furnished Traffic Signal Cabinet STH 181 & County Line Rd, Item SPV.0105.05.

A Description

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

B Materials

Use materials furnished by the department including: the traffic signal controller and the traffic signal cabinet.

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

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

C Construction

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

Request a signal inspection of the completed signal installation to the engineer at least five (5) working days prior to the time of the requested inspection. The department's Region Electrical personnel will perform the inspection.

D Measurement

The department will measure Transport and Install State Furnished Traffic Signal Cabinet [Location] as a single lump sum unit of work, in place and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Transport & Install State Furnished Traffic Signal Cabinet STH 16 & STH 67 SB Ramps	LS
SPV.0105.02	Transport & Install State Furnished Traffic Signal Cabinet STH 16 & STH 67 NB Ramps	LS
SPV.0105.03	Transport & Install State Furnished Traffic Signal Cabinet STH 33 & CTH O	LS
SPV.0105.04	Transport & Install State Furnished Traffic Signal Cabinet STH 59/164 & CTH Y	LS
SPV.0105.05	Transport & Install State Furnished Traffic Signal Cabinet STH 181 & County Line Rd	LS

Payment is full compensation for transporting and installing the traffic signal controller and the traffic signal cabinet; for furnishing and installing all other items necessary (such as wire nuts, splice kits and/or connectors, tape, insulating varnish, ground lug fasteners, etc.) to make the proposed system complete from the source of supply to the most remote unit and for clean-up and waste disposal.

**38. Temporary Vehicle Detection STH 16 & STH 67 Southbound Ramps, Item SPV.0105.06;
Temporary Vehicle Detection STH 16 & STH 67 Northbound Ramps, Item SPV.0105.07;
Temporary Vehicle Detection STH 33 & CTH O, Item SPV.0105.08;
Temporary Vehicle Detection STH 59/164 & CTH Y, Item SPV.0105.09;
Temporary Vehicle Detection STH 181 & County Line Road, Item SPV.0105.10.**

A Description

This special provision describes furnishing, installing and maintaining vehicle detection systems in conjunction with temporary traffic signals as shown in the plans. The desired vehicle detection zones and their operational parameters are show in the plans.

B Materials

Provide all necessary equipment for the approved method of temporary vehicle detection. Select, with prior approval of the engineer, the vehicle detection technology best suited for the site conditions and the anticipated construction work zones and activities. The engineer reserves the right to request a demonstration of any or all temporary vehicle detection technologies prior to said approval. Vehicle detection technologies considered shall include; but are not limited to: microwave detection, radar detection, or video detection. Detection technology shall provide for true presence detection.

C Construction

Provide immediate response, 24-hour/7-days per week, to maintain any aspect of the temporary vehicle detection that is defective, completing repairs or adjustments the same day as notification.

Adjust, relocate, add, or remove temporary vehicle detection equipment for each traffic control stage or sub stage as shown in the plans, request by the engineer, or as modified by the contractor's operations to maintain the required traffic and complete the proposed work.

Install non-intrusive detection units according to the manufacturer's recommendations. Install power cable and signal cabinet equipment. Aim the detection units to provide detection at the locations shown on the plans and make the detection system fully operational.

In the event, at installation or turn on date, a noticeable obstruction is present in line with the detection zone(s), advise the engineer before setting the zone.

The non-intrusive detection shall be mounted at a location per the manufacturer's recommendations. Relocate the detection system to a suitable location if there is impedance on the operation, construction related or otherwise.

The non-intrusive detection system shall be complete, in place, tested, and in full operation during each stage and sub-stage of construction.

Maintain all temporary vehicle detection zones as the plans show or as the engineer directs. The temporary vehicle detection zones shall be set near the vicinity and within the approximate distance from the stop bar as shown on the plans. Check temporary vehicle detection zones every other week and at the opening of each stage of temporary traffic signal operation to ensure that they are working and are aimed properly. Periodic adjustment of the detection zones and/or moving of the temporary vehicle detection sensors may be required due to changes in traffic control, staging, or other construction operations.

Ensure that the temporary vehicular detection system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

D Measurement

The department will measure Temporary Vehicle Detection as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.06	Temporary Vehicle Detection STH 16 & STH 67 Southbound Ramps	LS
SPV.0105.07	Temporary Vehicle Detection STH 16 & STH 67 Northbound Ramps	LS
SPV.0105.08	Temporary Vehicle Detection STH 33 & CTH O	LS
SPV.0105.09	Temporary Vehicle Detection STH 59/164 & CTH Y	LS
SPV.0105.10	Temporary Vehicle Detection STH 181 & County Line Road	LS

Payment is full compensation for demonstrating and selecting the vehicle detector technology, furnishing, installing and adjusting or moving the equipment, including all required materials, tools and supplies; and for removal, clean-up, and waste disposal.

39. **Transport & Install State Furnished Radar Detection System STH 59/164 & CTH Y, Item SPV.0105.11; Transport & Install State Furnished Radar Detection System STH 181 & County Line Rd, Item SPV.0105.12.**

A Description

This special provision describes the transporting and installing of department furnished Traffic Signal Radar Detection System on monotube poles or arms.

B Materials

Pick up the department furnished Radar Detection System at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical field unit (EFU) at (414 266-1170) to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

C Construction

Install the department furnished pole/arm mounting brackets, extension arms (if required) and radar units per manufacturer recommendations in the locations determined by the department.

Install the power and communication cable to run continuously (without splices) from the traffic signal cabinet to the pole handhole plus an additional 16-feet in each pull box and an extra 10-feet in the pole handhole. Install the detector unit cable whip to the power and communication cable in the pole handhole using the provided junction box.

Mark each end of the lead in the traffic signal cabinet and each cable in the pole handhole to indicate the equipment label (i.e. RA1, RA2, etc.) on the plans. For a cabinet that is not operating the signal, the contractor will terminate the ends. If the cabinet is operating the signal, the cabinet wiring will be done by the department.

Notify department's Electrical Shop at (414) 266-1170 upon completion of the installation and aiming of the radar units.

The department will provide the vendor's contact information. Coordinate directly with the department's radar detection system vendor to arrange for the vendor to program the radar detection system on site. Notify the department and vendor at least five working days prior to the date of programming. Assist the department and vendor with fine adjusting of the radar units during the radar system programming, if necessary.

D Measurement

The owner will measure Transport and Install State Furnished Radar Detection System as a single lump sum unit of work for each intersection acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.11	Transport & Install State Furnished Radar Detection System STH 59/164 & CTH Y	LS
SPV.0105.12	Transport & Install State Furnished Radar Detection System STH 181 & County Line Rd	LS

Payment is full compensation for transporting and installing the radar detection system, cable, mounting hardware, and radar units; assisting the department and vendor during the radar system programming; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

- 40. Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads, STH 16 & STH67 SB Ramps, Item SPV.0105.13;
Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads, STH 16 & STH 67 NB Ramps, Item SPV.0105.14;
Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads, STH 33 & CTH O, Item SPV.0105.15;
Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads, STH 59/164 & CTH Y, Item SPV.0105.16.**

A Description

This special provision describes the transporting and installing of department furnished Emergency Vehicle Preemption (EVP) Detector Heads and mounting brackets.

B Materials

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

C Construction

Install the EVP detector heads and mounting brackets as shown on the plans. The department will determine the exact location to ensure that the installation does not create a sight obstruction. Mount the EVP detector heads and wire them per manufacturer instructions. For a cabinet that is not operating the signal, the contractor will terminate the ends and install the discriminators and card rack in the cabinet. If the cabinet is operating the signal, the cabinet wiring will be done by the department

Notify the department's Electrical shop at (414) 266-1170 upon completion of the installation of the Emergency Vehicle Preemption (EVP) Detector Heads and mounting brackets.

D Measurement

The department will measure Transport and Install State Furnished Emergency Vehicle Preemption (EVP) Detector Heads as a single lump sum unit of work, in place and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.13	Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads STH 16 & STH 67 SB Ramps	LS
SPV.0105.14	Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads STH 16 & STH 67 NB Ramps	LS
SPV.0105.15	Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads STH 33 & CTH O	LS
SPV.0105.16	Transport & Install State Furnished Emergency Vehicle Prevention Detector Heads STH 59/164 & CTH Y	LS

Payment is full compensation for transporting and installing of department furnished Emergency Vehicle Preemption (EVP) Detector Heads and mounting brackets.

41. **Transporting Traffic Signal & Intersection Lighting Materials STH 16 & STH 67 SB Ramps, Item SPV.0105.17;**
Transporting Traffic Signal & Intersection Lighting Materials STH 16 & STH 67 NB Ramps, Item SPV.0105.18;
Transporting Traffic Signal & Intersection Lighting Materials STH 33 & CTH O, Item SPV.0105.19;
Transporting Traffic Signal & Intersection Lighting Materials STH 59/164 & CTHY, Item SPV.0105.20;
Transporting Traffic Signal & Intersection Lighting Materials STH 181 & County Line Rd, Item SPV.0105.21.

A Description

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

B Materials

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

Pick up the department furnished materials at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical Field Unit at (414) 266-1170 and make arrangements for picking up the department furnished materials five (5) working days prior to picking the materials up.

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

C Construction

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.17	Transporting Traffic Signal & Lighting Materials STH16&STH67SBRamps	LS
SPV.0105.18	Transporting Traffic Signal & Intersection Lighting Materials STH16&STH67NBRamps	LS
SPV.0105.19	Transporting Traffic Signal & Intersection Lighting Materials STH33&CTHO	LS
SPV.0105.20	Transporting Traffic Signal & Intersection Lighting Materials STH59/164&CTHY	LS
SPV.0105.21	Transporting Traffic Signal & Intersection Lighting Materials STH181&CountyLineRd	LS

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

42. **Remove, Salvage, & Reinstall Fiber Optic Traffic Signal Equip STH 3 & CTH O, Item SPV.0105.22;**
Remove, Salvage, & Reinstall Fiber Optic Traffic Signal Equip STH 59/164 & CTH Y, Item SPV.0105.23;
Remove, Salvage, & Reinstall Fiber Optic Traffic Signal Equip STH 181 & County Line Rd, Item SPV.0105.24.

A Description

This special provision describes removing, salvaging, and reinstalling existing fiber optic traffic signal equipment according to the pertinent provisions of standard spec 204, 655, and 658 and as hereinafter provided.

B (Vacant)

C Construction

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

Notify the department at least five working days prior to the removal of the traffic signal equipment. Complete the removal work as soon as possible following de-energizing of the traffic signal.

Intercept and remove the fiber optic communications signal equipment, including, but not limited to: fiber cabling and fiber optic communications cabinet equipment. Safety store cabling in the nearest communication vault or other approved storage area undisturbed by construction. Deliver the fiber optic communications cabinet equipment to the West Allis Electrical Service Facility at 935 South 60th Street, West Allis, WI. Contact the department's Electrical Field Unit at (414) 266-1170 at least five working days prior to delivery to make arrangements. The cabinet equipment shall be stored by the department for the duration of the project.

Upon direction from the engineer, pick up the materials being stored at the West Allis Electrical Service Facility and re-deliver to the site. Reinstall the salvaged equipment on the proposed traffic signal. Perform all work according to standard spec 658. The fiber optic communications equipment shall be installed and function in the same manner as the existing traffic signal.

D Measurement

The department will measure Remove, Salvage, and Reinstall Fiber Optic Traffic Signal Equipment (Location) as a single lump sum unit of work in place and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.22	Remove, Salvage, & Reinstall Fiber Optic Traffic Signal Equip STH 33 & CTH O	LS
SPV.0105.23	Remove, Salvage, & Reinstall Fiber Optic Traffic Signal Equip STH 59/164 & CTH Y	LS
SPV.0105.24	Remove, Salvage, & Reinstall Fiber Optic Traffic Signal Equip STH 181 & County Line Rd	LS

Payment is full compensation for removing, salvaging, transporting, and reinstalling the fiber optic traffic signal equipment; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

43. Transport & Install State Furnished Audible Ped Signal System STH 59/164 & CTH Y, Item SPV.0105.25.

A Description

This special provision describes the transporting and installing of department furnished audible pedestrian signal equipment on traffic signal poles.

B Materials

Pick up the department furnished audible pedestrian signal equipment at the department's Electrical Shop located at 935 South 60th Street, West Allis. Notify the department's Electrical field unit (EFU) at (414) 266-1170 to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

C Construction

Install the department furnished audible pedestrian signal equipment per manufacturer recommendations in the locations determined by the department.

Mark each end of the lead in the traffic signal cabinet and each cable in the pole handhole to indicate the equipment label (i.e. SB1, SB2, etc.) on the plans. For a cabinet that is not operating the signal, the contractor will terminate the ends. If the cabinet is operating the signal, the cabinet wiring will be done by the department.

Notify department's Electrical Shop at (414) 266-1170 upon completion of the installation and aiming of the radar units.

The department will provide the vendor's contact information. Coordinate directly with the department's audible pedestrian signal equipment vendor to arrange for the vendor to program the system on site. Notify the department and vendor at least five working days prior to the date of programming. Assist the department and vendor with equipment adjustments and setup during the system programming, if necessary.

D Measurement

The owner will measure Transport and Install State Furnished Audible Pedestrian Signal System as a single lump sum unit of work for each intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.25	Transport & Install State Furnished Audible Ped Signal System STH 59/164 & CTH Y	LS

Payment is full compensation for transporting and installing the audible pedestrian signal equipment and mounting hardware; assisting the department and vendor during the system setup and programming; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work. Pedestrian signal cable will be paid for as a separate bid item.

- 44. Temporary Emergency Vehicle Preemption (EVP) System STH 16 & STH 67 SB Ramps, Item SPV.0105.26;
Temporary Emergency Vehicle Preemption (EVP) System STH 16 & STH 67 NB Ramps, Item SPV.0105.27;
Temporary Emergency Vehicle Preemption (EVP) System STH 33 & CTH O, Item SPV.0105.28;
Temporary Emergency Vehicle Preemption (EVP) System STH 59/164 & CTH Y, Item SPV.0105.29.**

A Description

This special provision describes maintaining an emergency vehicle preemption system during construction at the temporary signalized intersection as shown in the plans.

B Materials

Furnish an emergency vehicle preemption system compatible with the municipality's systems and users. Contact the appropriate municipality for information to confirm the operational requirements of the temporary emergency vehicle preemption system.

C Construction

The Temporary EVP System, as shown in the temporary traffic signal plans or as directed by the engineer, shall be complete in place, tested, and in full operation during each stage and sub-stage of construction.

Install the EVP system as shown in the plans for each construction stage and according to the manufacturer's recommendations. Detectors may be mounted on the temporary traffic signal span wire or wood poles. Relocate the temporary EVP detectors to a suitable location if construction activities and/or construction staging changes impede the detector operation. Arrange for testing of equipment prior to acceptance of the installation for each construction stage.

All cables associated with the temporary EVP system shall be routed to the cabinet. Each lead shall be appropriately marked as to which EVP channel it is associated.

Periodic adjustment and/or moving of the temporary EVP detectors may be required due to changes in traffic control, staging, or other construction operations.

Ensure that the temporary EVP system stays in clean working order. Periodic cleaning of the equipment may be required due to dirt and dust build-up.

Remove the temporary EVP system upon project completion.

Provide the engineer records of all EVP settings used during construction.

D Measurement

The department will measure Temporary Emergency Vehicle Preemption System as a single lump sum unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.26	Temporary Emergency Vehicle Preemption (EVP) System STH 16 & STH 67 SB Ramps	LS
SPV.0105.27	Temporary Emergency Vehicle Preemption (EVP) System STH 16 & STH 67 NB Ramps	LS
SPV.0105.28	Temporary Emergency Vehicle Preemption (EVP) System STH 33 & CTH O	LS
SPV.0105.29	Temporary Emergency Vehicle Preemption (EVP) System STH 59/164 & CTH Y	LS

45. Exposed Aggregate Concrete Sidewalk 5-inch, Item SPV.0165.01.

A Description

This special provision describes constructing exposed aggregate concrete sidewalk according to standard spec 602, except as hereinafter modified.

B Materials

Furnish aggregate size of a minimum of 1/4" and a maximum of 3/4". Engineer will select color from supplier's standard aggregate mixes, Mississippi Stone Mix by Halquist Stone or approved equal. Acceptable aggregate suppliers include:

Halquist Stone
N51 W23563 Lisbon Road
P.O. Box 308
Sussex, WI 53089
(262) 246-9000

Lemke Stone
19594 W Good Hope Road
P.O. Box 428
Lannon, WI 53046
(262) 251-9078

Eden Stone Company
W4520 Lime Road
Eden, WI 53019
(920) 477-2521

C Construction

C.1 General

Evenly spray concrete surface with retarding agent; cover concrete if necessary. Leave formwork in place until concrete has attained minimum compressive strength of 500 psi. Immediately after removal of formwork and cover, wash retarded concrete surfaces with water and scrub with stiff bristle brush

exposing aggregate to match accepted sample area. Do not expose more than 40% of aggregate surface.

C.2 Submittals

Submit sample of aggregate showing full range of color and aggregate size. After acceptance of aggregate, construct a 5-foot by 5-foot mockup indicating exposed aggregate concrete finish showing control and expansion joints. Approval of mockup is required prior to completing this work. Failure to receive mockup approval may result in rejection of work. The approved mockup will be the standard from which the work will be judged and approved by the engineer. The mockup must remain on the project site until project completion.

D Measurement

The department will measure Exposed Aggregate Concrete Sidewalk 5-inch by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Exposed Aggregate Concrete Sidewalk 5-inch	SF

Payment is full compensation for furnishing all materials, including gravel base, aggregate and concrete; delivering, installing, placing and finishing.

46. Remove and Restore Brick Sidewalk, Item SPV.0165.02.

A Description

This special provision describes removing and restoring existing brick sidewalk and metal edging from areas disturbed by construction activities as directed by the engineer, and as hereinafter provided.

B Materials

Furnish existing brick pavers and metal edging materials salvaged from brick sidewalk removal or provide new materials to match if damaged during removal.

C Construction

Remove and store the existing brick sidewalk and metal edging according to standard spec 204. Store salvaged brick pavers and metal edging for reuse.

Prepare base as required, set metal edging, install brick pavers, and fill joints with sand and match the adjacent patterns and construction. Trim pavers as needed.

D Measurement

The department will measure Remove and Restore Brick Sidewalk by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.02	Remove and Restore Brick Sidewalk	SF

Payment is full compensation for furnishing, hauling and placing all materials; excavating, backfilling and properly disposing of excess material.

ADDITIONAL SPECIAL PROVISION 4

Payment to First-Tier Subcontractors

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

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

Payment to Lower-Tier Subcontractors

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

Release of Routine Retainage

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

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

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

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

Additional Special Provision 6

ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

104.3 Contractor Notification

Replace the entire text with the following effective with the December 2019 letting:

104.3.1 General

- (1) Subsection 104.3 specifies the step-by-step communication process to be followed to expedite the resolution of potential contract revisions identified by the contractor. Both contractor actions and department responses are outlined. The contractor's non-compliance with the requirements of 104.3 may constitute a waiver of entitlement to a pay adjustment under 109.4 or a time extension under 108.10. The department and contractor can mutually agree to extend any time frame specified throughout 104.3.

104.3.2 Contractor Initial Oral Notification

- (1) If required by 104.2, or if the contractor believes that the department's action, the department's lack of action, or some other situation results in or necessitates a contract revision, the contractor must promptly provide oral notification to the project engineer. Upon notification, the project engineer will attempt to resolve the identified issue.

104.3.3 Contractor 5-Day Written Statement

- (1) If the project engineer has not responded or resolved the identified issue within 5 business days after receipt of initial notification, provide a contractor written statement to the project engineer in the following format:

Part 1 - Executive Summary (label page 1.1 through page 1.x)

Include a detailed, factual statement of the request for additional compensation and contract time. Include the date the issue was identified, the date initial notification was given to the project engineer, and the dates and specific locations of work involved.

Part 2 - Contractor's Basis of Entitlement (label page 2.1 through page 2.x)

Include references to relevant contract provisions and a narrative summarizing how the contract provisions support the request for a revision to the original contract.

Part 3 - Contractor's Request for Damages (label page 3.1 through page 3.x)

When requesting additional compensation, include an itemized list of costs with a narrative supporting the requested amount and explaining how the costs are tied to the requested contract revision.

When requesting additional contract time, include a copy of the schedule that was in effect when the issue occurred and a detailed narrative explaining how the issue impacted controlling items of work. Provide a time impact analysis utilizing base and updated schedules.

If the full extent of either compensation or time is not known at the date of submittal of the contractor 5-Day written statement, provide a brief statement as to why, and include estimated compensation and time.

Part 4 - Supporting Documentation (label page 4.1 through page 4.x)

Include copies of the following:

- A. Relevant excerpts from specifications, special provisions, plans, change orders, or other contract documents.
 - B. Communication on the issue, including: letters, e-mails, meeting minutes, etc.
 - C. Any other documentation to support or clarify the contractor's position, including: daily work records, cost summary sheets, weigh tickets, test results, sketches, etc.
- (2) With the submittal of the written statement, the contractor may also request a meeting with the region.

104.3.4 Region One-Day Written Acknowledgment

- (1) Within one business day after the contractor provides the 5-day written statement, the project engineer will provide a region one-day written acknowledgment to the contractor. The project engineer will continue to resolve the issue.

104.3.5 Region 5-Day Written Response

- (1) Within 5 business days after receiving the contractor 5-day written statement, the project engineer may request specific additional information to allow the project engineer to decide whether item 1 or 2 of 104.3.6(1) applies. The project engineer will state the information needed and date it is to be

received for further review. Submit additional information as an amendment to the contractor 5-day written statement.

104.3.6 Region Final Decision

- (1) Within 10 business days after receiving the contractor 5-day written statement or additional information requested in 104.3.5(1), whichever comes last, the region will consider all information and provide a region final decision in writing to the contractor with one or more of the following responses:
 1. The region will confirm that the contractor is entitled to a contract revision and a contract change order is necessary as specified in 104.2. The project engineer will give direction concerning the potential change.
 2. The region will deny that the contractor is entitled to a contract revision. The project engineer will provide a statement as to why the issue is not a change to the contract. At a minimum, the project engineer will respond to the contractor's issues and refer to the contract to show why the issues are not a change from the original contract.
 - (2) If the contractor does not agree with the region's decision the contractor may pursue the issue as a claim as specified in 105.13. Alternatively, if the contractor and department mutually agree, the department will get a third-party advisory opinion according to the department's dispute resolution procedures.
 - (3) If a third party reviews the issue, their recommendation is not binding on either party. The region has 10 business days after receipt of the third party's written recommendation to render a decision. If the department fails to respond in writing within those 10 business days or the contractor disagrees with the region's decision, the contractor may pursue the issue as a claim as specified in 105.13.
-

104.6.1.2.1 General

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Conduct construction operations and provide facilities required to maintain the portion of the project open to the public in a condition that safely and adequately accommodates public traffic. Use barricades, signs, flaggers, and temporary barrier as specified in part VI, of the WMUTCD and ensure that the contractor's use of the right-of-way conforms to 107.9. Throughout the life of the contract, and as the engineer directs, conduct construction operations and provide facilities as follows:
 - Conduct flagging operations conforming to plan details and the department's flagging handbook.
 - Use drums, barricades, and temporary barrier to delineate and shield abrupt drop-offs and other hazards.
 - Furnish, erect, and maintain traffic control devices and facilities conforming to 643.
 - Furnish, erect, and maintain temporary pedestrian devices and facilities conforming to 644.
-

104.6.1.2.2 Flagging

Replace paragraph three with the following effective with the December 2019 letting:

- (3) Provide associated advanced warning signs that meet the retroreflective requirements of 637.2.2.2. Provide temporary portable rumble strips from the department's APL installed according to manufacturer's instructions and as specified in the flagging plan details. Provide guidance service through the worksite using pilot vehicles if required.

Replace paragraph five with the following effective with the December 2019 letting:

- (5) Flagging is incidental to the contract and includes costs for advance signing, temporary portable rumble strips, and pilot vehicle guidance service.

104.8 Rights in the Use of Materials Found on the Project

Replace paragraph two with the following effective with the December 2019 letting:

- (2) Do not excavate or remove material from within the right-of-way that is not within the vertical and horizontal excavation limits the plans show except as follows:
- If the contract does not identify potential source areas, obtain written authorization from the engineer to use those sources. Complete required environmental documentation and obtain necessary permits. The department will reduce pay by \$1.50 per cubic yard under the Material from Right-of-Way administrative item for material obtained from those areas.
 - If the contract identifies potential source areas that were evaluated and permitted in the original environmental document, do not begin excavating in those areas until the engineer allows in writing. Additional environmental documentation and environmental permits are not required. The department will not reduce pay for material obtained from those areas.

The department may suspend use of these sources if the contractor's operation affects the essential functions or characteristics of the project.

104.10.1 General

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Subsection 104.10 specifies a 2-step process for contractors to follow in submitting a cost reduction incentive (CRI) for modifying the contract in order to reduce direct construction costs computed at contract bid prices. The initial submittal is referred to as a CRI concept and the second submittal is a CRI proposal. The contractor and the department will equally share all savings generated to the contract due to a CRI as specified in 104.10.4.2(1). The department encourages the contractor to submit CRI concepts for the following situations:
1. The contractor generates the original cost savings idea and formulates it into a concept.
 2. The department generates the original cost savings idea and obtains the contractor's assistance to formulate the idea into a concept.

Replace paragraph five with the following effective with the December 2019 letting:

- (5) The department will consider a CRI that changes but does not impair the essential functions or characteristics of the project. These functions or characteristics include, but are not limited to, appearance, service life, economy of operations, ease of maintenance, design, and safety of structures and pavements, construction phasing or procedures, or other contract requirements. The department will not consider a CRI that changes the following:
- Permanent pavement type.
 - Permanent structural cross section above the subgrade.
-

104.10.2 Submittal and Review of a CRI Concept

Replace paragraphs five and six with the following effective with the December 2019 letting:

- (5) The department may consider a CRI concept that addresses a potential change under 104.2.
- (6) The department will not implement a contractor-initiated CRI concept, or portion of that concept, without sharing the cost savings with the contractor as specified in 104.10.4.2.
- (7) The savings generated by the CRI must be sufficient to warrant its review and processing and offset the level of risk. The department will assess the risk of the CRI relative to departmental design policies and criteria for the project. The department may reject a CRI concept for the following reasons:
1. It requires excessive time or costs for the contractor to develop the CRI proposal.
 2. It requires excessive time or costs for review, evaluation, investigation, or implementation.
 3. It introduces an inappropriate level of risk.

104.10.4.2 Payment for the CRI Work

Replace paragraph one with the following effective with the December 2019 letting:

- (1) The department will pay for completed CRI work as specified for progress payments under 109.6. The department will pay for CRI's under the Cost Reduction Incentive administrative item. When all CRI costs are determined, the department will execute a contract change order that does the following:
 1. Adjusts the contract time, interim completion dates, or both.
 2. Pays the contractor for the unpaid balance of the CRI work.
 3. Pays the contractor 50 percent of the net savings resulting from the CRI, calculated as follows:

$$NS = CW - CRW - CC - DC$$

Where:

NS = Net Savings

CW = The cost of the work required by the original contract that is revised by the CRI. CW is computed at contract bid prices if applicable.

CRW = The cost of the revised work, computed at contract bid prices if applicable.

CC = The contractor's cost of developing the CRI proposal.

DC = The department's cost for investigating, evaluating, and implementing the CRI proposal.

105.13 Claims Process for Unresolved Changes

Replace the entire text with the following effective with the December 2019 letting:

105.13.1 General

- (1) Before submitting a claim, the department and contractor can mutually agree to have the department get a third-party advisory opinion as specified in 104.3.6.
- (2) The department and contractor can mutually agree to extend any time frame specified throughout 105.13 and can mutually agree to utilize an alternative dispute resolution method at any point before the department renders its final decision.
- (3) The department and contractor share costs related to referral to a dispute review board (DRB) as prescribed in the department's dispute resolution procedures.

105.13.2 Notice of Claim

- (1) If the contractor has followed the procedures for revising the contract specified in 104.2 and provided the notification specified in 104.3, but still disagrees with the region, the contractor may pursue the issue as a claim. File a notice of claim with the project engineer concerning the disagreement within 14 calendar days of receiving the region's decision under 104.3.6(1).
- (2) The project engineer may deny the applicable portion of a claim if the contractor does not do the following:
 1. File the notice of claim within 14 calendar days as specified in 105.13.2(1).
 2. Give the project engineer sufficient access to keep a record of the actual labor, materials, and equipment used to perform the claimed work.

- (3) Upon filing the notice of claim, maintain records as specified for force account statements in 109.4.5. Unless the project engineer issues a suspension, continue to perform the disputed work. The department will continue to make progress payments to the contractor as specified in 109.6.

105.13.3 Submission of Claim

- (1) Submit the claim to the project engineer as promptly as possible following the submission of the Notice of Claim, but not later than the end of the time allowed under 109.7 for the contractor to respond in writing to the engineer-issued semi-final estimate. If the contractor does not submit the claim within that response time, the department will deny the claim.
- (2) The department will not accept the submission of a claim until the resolution process in 104.3 has been completed and the contractor makes no further requests to submit updated information that may affect the region's final decision.

105.13.4 Content of Claim

- (1) The final contractor written statement under 104.3.3 is considered the content of the claim. If the contractor makes a request to submit updated information that may affect the region's final decision under 104.3.6, submit the updated information as an amendment to the contractor written statement and continue the resolution process in 104.3 before submitting a claim.
- (2) The department may refer the claimant of a false claim to the appropriate authority for criminal prosecution. Certify the claim using the following form:

The undersigned is duly authorized to certify this claim on behalf of (the contractor).

(The contractor) certifies that this claim is made in good faith, that the supporting data are accurate and complete to the best of (the contractor's) knowledge and belief, and that the amount requested accurately reflects the contract adjustment for which (the contractor) believes that the department is liable.

(THE CONTRACTOR)

By: _____
(Name and Title)

Date of Execution: _____

105.13.5 Department Final Decision

- (1) The department will have up to 28 calendar days, from the contractor's submission of the claim, to perform a final review of the claim and conduct all meetings. The department may request, in writing, that the contractor submit additional information related to the claim. Submit that additional information, or notify the department in writing to base its decision on the information previously submitted. Either the contractor or region may request a meeting to present their views. Before the meeting, both parties will agree upon written ground rules for the meeting.
- (2) Upon completion of the 28 calendar days for the department's review and meetings, the department will have up to 21 calendar days to render a written decision. The department will consider written and oral submissions from the contractor and region, and may consider other relevant information in the project records.
- (3) The department will provide the following in its final decision:
 1. A concise description of the claim.
 2. A clear, contractual basis for its decision that includes a reference to 104.2 on revisions to the contract and as appropriate, specific reference to language regarding the bid items in question.
 3. Other facts the department relies on to support its decision.
 4. A concise statement of the circumstances surrounding the claim and reasons for its decision. If the department rejects the claim in whole or in part, the department will explain why the claimed work is not a change to the contract work.
 5. The amount of money or other relief, if any, the department will grant the contractor.
- (4) If the contractor disagrees with the department's final decision, the contractor may initiate a legal action pursuant to state statutes.

106.3.4.2.2.2 Freeze-Thaw Soundness

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Perform freeze-thaw soundness testing according to AASHTO T103 as modified in CMM 8-60.2. Provide freeze/thaw soundness test results based on the fraction retained on the No. 4 sieve as follows:
 1. Using virgin crushed stone aggregates produced from limestone/dolomite sources in one or more of the following counties or from out of state:

Brown	Columbia	Crawford	Dane	Dodge
Fond du Lac	Grant	Green	Green Lake	Iowa
Jefferson	Lafayette	Marinette	Oconto	Outagamie
Rock	Shawano	Walworth	Winnebago	
 2. Using gravel aggregates produced from pit sources in one or more of the following counties or from out of state:

Dodge	Washington	Waukesha
-------	------------	----------

208.5 Payment

Replace paragraph three with the following effective with the December 2019 letting:

- (3) The department will adjust pay for material obtained from within the project right-of-way limits but outside project excavation limits, furnished under 208.2.2, as specified in 104.8.

301.2.3 Sampling and Testing

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Department and contractor testing shall conform to the following:

Sampling ^[1]	AASHTO T2
Percent passing the 200 sieve	AASHTO T11
Gradation ^[1]	AASHTO T27
Gradation of extracted aggregate	AASHTO T30
Moisture content ^[1]	AASHTO T255
Liquid limit	AASHTO T89
Plasticity index	AASHTO T90
Wear	AASHTO T96
Sodium sulfate soundness (R-4, 5 cycles)	AASHTO T104
Freeze/thaw soundness ^[1]	AASHTO T103
Lightweight Pieces in Aggregate	AASHTO T113
Fracture	ASTM D5821 as modified in CMM 8-60
Moisture/density ^[1]	AASHTO T99 and AASHTO T180
In-place density ^[1]	AASHTO T191
Asphaltic material extraction	CMM 8-36 WisDOT Test Method 1560

^[1] As modified in CMM 8-60.

301.2.4.5 Aggregate Base Physical Properties

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Furnish aggregates conforming to the following:

TABLE 301-2 AGGREGATE BASE PHYSICAL PROPERTIES

PROPERTY	CRUSHED STONE	CRUSHED GRAVEL	CRUSHED CONCRETE	RECLAIMED ASPHALT	REPROCESSED MATERIAL	BLENDED MATERIAL
Gradation AASHTO T27						
dense	305.2.2.1	305.2.2.1	305.2.2.1	305.2.2.2	305.2.2.1	305.2.2.1 ^[1]
open-graded	310.2	310.2	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>
Wear AASHTO T96 loss by weight	<=50%	<=50%	note ^[2]	—	note ^[2]	note ^[3]
Sodium sulfate soundness AASHTO T104 loss by weight						
dense	<=18%	<=18%	—	—	—	note ^[3]
open-graded	<=12%	<=12%	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>
Freeze/thaw soundness AASHTO T103 ^[6] loss by weight						
dense	<=18%	<=18%	note ^[2]	—	—	note ^[3]
open-graded	<=18%	<=18%	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>
Liquid limit AASHTO T89	<=25	<=25	<=25	—	—	note ^[3]
Plasticity AASHTO T90	<=6 ^[4]	<=6 ^[4]	<=6 ^[4]	—	—	note ^[3]
Fracture ASTM D5821 ^[6] min one face by count						
dense	58%	58%	58%	—	note ^[5]	note ^[3]
open-graded	90%	90%	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>	<u>not allowed</u>

^[1] The final aggregate blend must conform to the specified gradation.

^[2] No requirement for material taken from within the project limits. For material supplied from a source outside the project limits:

- LA wear maximum of 50 percent loss, by weight.
- Freeze thaw maximum of 42 percent loss, by weight.

^[3] Required as specified for the individual component materials defined in columns 2 - 6 of the table before blending.

^[4] For base placed between old and new pavements, use crushed stone, crushed gravel, or crushed concrete with a plasticity index of 3 or less.

^[5] >=75 percent by count of non-asphalt coated particles.

^[6] as modified in CMM 8-60.

450.2.2 Aggregate Sampling and Testing

Replace paragraph one with the following effective with the December 2019 letting:

- (1) The department and the contractor will sample and test according to the following methods, except as revised with the engineer's approval:
- | | |
|--|-------------|
| Sampling aggregates | AASHTO T2 |
| Material finer than No. 200 sieve | AASHTO T11 |
| Sieve analysis of aggregates | AASHTO T27 |
| Mechanical analysis of extracted aggregate | AASHTO T30 |
| Sieve analysis of mineral filler | AASHTO T37 |
| Los Angeles abrasion of coarse aggregate | AASHTO T96 |
| Freeze-thaw soundness of coarse aggregate ^[1] | AASHTO T103 |
| Sodium sulfate soundness of aggregates (R-4, 5 cycles) | AASHTO T104 |
| Extraction of bitumen | AASHTO T164 |

^[1] As modified in CMM 8-60.2.

450.3.2.6.3 Compaction Roller Pattern Determined by Growth Curve

Add 450.3.2.6.3 as a new subsection effective with the December 2019 letting:

450.3.2.6.3 Compaction Roller Pattern Determined by Growth Curve

- (1) When specified in 460.3.3.1, compact asphaltic mixture using the roller pattern established during construction of a control strip. Use 2 or more rollers per paver if placing more than 165 tons per hour.
- (2) On the first day of production, construct a control strip under the direct observation of department personnel. After compacting the control strip with a minimum of 3 passes, mark the gauge outline and take a one-minute wet density measurement using a nuclear density gauge in back scatter mode at a single location. Take a density measurement at the same location after each subsequent pass. Continue compacting and testing until the increase in density is less than 1 pcf for 3 consecutive passes. Submit the final roller pattern to the engineer in writing. Once the roller pattern is established do not change the pattern or decrease the number, type, or weight of rollers without the engineer's written approval.
- (3) After establishing the roller pattern, and under the direct observation of the engineer, cut at least one 4-inch diameter or larger core from the control strip density gauge outline. Prepare cores and determine density according to AASHTO T166. Dry cores after testing. Fill core holes and obtain engineer approval before opening to traffic. The department will maintain custody of cores throughout the entire sampling and testing process. The department will label cores, transport cores to testing facilities, witness testing, store dried cores, and provide subsequent verification testing.

450.3.2.8 Jointing

Replace paragraph three with the following effective with the December 2019 letting:

- (3) Construct notched wedge longitudinal joints for mainline paving of HMA layers 1.75 inches or greater. Extend the wedge beyond the normal lane width as the plans show or as the engineer directs.

Replace paragraph five with the following effective with the December 2019 letting:

- (5) Construct the wedge for each layer using an engineer-approved strike-off device that will provide a uniform slope and will not restrict the main screed. Shape and compact the wedge with a weighted steel side roller wheel or vibratory plate compactor the same width as the wedge. Apply a tack coat to the wedge surface and both notches before placing the adjacent lane.
- (6) Clean longitudinal and transverse joints coated with dust and, if necessary, paint with hot asphaltic material, a cutback, or emulsified asphalt to ensure a tightly bonded, sealed joint.

455.2.5 Tack Coat

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Under the Tack Coat bid item, furnish type SS-1h, CSS-1h, QS-1h, CQS-1h, or modified emulsified asphalt with an "h" suffix, unless the contract specifies otherwise.

460.2.2.3 Aggregate Gradation Master Range

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Ensure that the aggregate blend, including recycled material and mineral filler, conforms to the gradation requirements in table 460-1. The values listed are design limits; production values may exceed those limits.

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
	No. 1 (37.5 mm)	No. 2 (25.0 mm)	No. 3 (19.0 mm)	No. 4 (12.5 mm)	No. 5 (9.5 mm)	No. 6 (4.75 mm)	SMA No. 4 (12.5 mm)	SMA No. 5 (9.5 mm)
50.0-mm	100							
37.5-mm	90 - 100	100						
25.0-mm	90 max	90 - 100	100					
19.0-mm	___	90 max	90 - 100	100			100	
12.5-mm	___	___	90 max	90 - 100	100		90 - 97	100
9.5-mm	___	___	___	90 max	90 - 100	100	58 - 80	90 - 100
4.75-mm	___	___	___	___	90 max	90 - 100	25 - 35	35 - 45
2.36-mm	15 - 41	19 - 45	23 - 49	28 - 58	32 - 67	90 max	15 - 25	18 - 28
1.18-mm	___	___	___	___	___	30 - 55	___	___
0.60-mm	___	___	___	___	___	___	18 max	18 max
0.075-mm	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	6.0 - 13.0	8.0 - 11.0	8.0 - 12.0
% VMA	11.0 min	12.0 min	13.0 min	14.0 min ^[1]	15.0 min ^[2]	16.0 - 17.5	16.0 min	17.0 min

^[1] 14.5 for LT and MT mixes.

^[2] 15.5 for LT and MT mixes.

460.2.7 HMA Mixture Design

Replace paragraph one with the following effective with the December 2019 letting:

- (1) For each HMA mixture type used under the contract, develop and submit an asphaltic mixture design according to CMM 8-66 and conforming to the requirements of table 460-1 and table 460-2. Ensure that SMA mixture designs adhere to AASHTO R 46 and AASHTO M 325 in addition to the required test procedures outlined in CMM 8-66 table 1 and CMM 8-66 table 2. Determine the specific gravity of fines or super fines used as a mineral filler or additional stabilizer in SMA designs according to AASHTO T 100. The values listed are design limits; production values may exceed those limits. The department will review mixture designs and report the results of that review to the designer according to CMM 8-66.

TABLE 460-2 MIXTURE REQUIREMENTS

Mixture type	LT	MT	HT	SMA
LA Wear (AASHTO T96)				
100 revolutions(max % loss)	13	13	13	13
500 revolutions(max % loss)	50	45	45	35
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12	12	12	12
Freeze/Thaw (AASHTO T103 as modified in CMM 8-60.2) (specified counties, max % loss)	18	18	18	18
Fractured Faces (ASTM D5821 as modified in CMM 860) (one face/2 face, % by count)	65/___	75 / 60	98 / 90	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	5 (5:1 ratio)	5 (5:1 ratio)	5 (5:1 ratio)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	40 ^[1]	43 ^[1]	45	45
Sand Equivalency (AASHTO T176, min)	40	40 ^[2]	45	50
Clay Lumps and Friable Particle in Aggregate (AASHTO T112)	<= 1%	<= 1%	<= 1%	<= 1%
Plasticity Index of Material Added to Mix Design as Mineral Filler (AASHTO T89/90)	<= 4	<= 4	<= 4	<= 4
Gyratory Compaction				
Gyrations for Nini	6	7	8	7
Gyrations for Ndes	40	75	100	65
Gyrations for Nmax	60	115	160	100
Air Voids, %Va (%Gmm Ndes)	4.0 (96.0)	4.0 (96.0)	4.0 (96.0)	4.5 (95.5)
% Gmm Nini	<= 91.5 ^[3]	<= 89.0 ^[3]	<= 89.0	___
% Gmm Nmax	<= 98.0	<= 98.0	<= 98.0	<= 98.0
Dust to Binder Ratio ^[4] (% passing 0.075/Pbe)	0.6 - 1.2 ^[5]	0.6 - 1.2 ^[5]	0.6 - 1.2 ^[5]	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	68 - 80 ^{[6] [8]}	65 - 75 ^{[6] [7] [9]}	65 - 75 ^{[6] [7] [9]}	70 - 80
Tensile Strength Ratio (TSR) (AASHTO T283) ^{[10] [11]}				
no antistripping additive	0.75 min	0.75 min	0.75 min	0.80 min
with antistripping additive	0.80 min	0.80 min	0.80 min	0.80 min
Draindown (AASHTO T305) (%)	___	___	___	<= 0.30
Minimum Effective Asphalt Content, Pbe (%)	___	___	___	5.5

^[1] For No 6 (4.75 mm) nominal maximum size mixes, the specified fine aggregate angularity is 43 for LT and 45 MT mixes.

^[2] For No 6 (4.75 mm) nominal maximum size mixes, the specified sand equivalency is 43 for MT mixes.

^[3] The percent maximum density at initial compaction is only a guideline.

^[4] For a gradation that passes below the boundaries of the caution zone (ref. AASHTO M323), the dust to binder ratio limits are 0.6 - 1.6.

^[5] For No 6 (4.75 mm) nominal maximum size mixes, the specified dust to binder ratio limits are 1.0 - 2.0 for LT mixes and 1.5 - 2.0 for MT and HT mixes.

^[6] For No. 6 (4.75mm) nominal maximum size mixes, the specified VFB is 67 - 79 percent for LT mixes and 66 - 77 percent for MT and HT mixes.

^[7] For No. 5 (9.5mm) and No. 4 (12.5 mm) nominal maximum size mixtures, the specified VFB range is 70 - 76 percent.

^[8] For No. 2 (25.0mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[9] For No. 1 (37.5mm) nominal maximum size mixes, the specified VFB lower limit is 67 percent.

^[10] WisDOT eliminates freeze-thaw conditioning cycles from the TSR test procedure.

^[11] Run TSR at asphalt content corresponding to 3.0% air void regressed design, or 4.5% air void design for SMA, using distilled water for testing.

460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater

Replace paragraph four with the following effective with the December 2019 letting:

- (4) Use the test methods identified below, or other methods the engineer approves, to perform the following tests at the frequency indicated:

Blended aggregate gradations:

Drum plants:

- Field extraction by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.
- Belt samples, optional for virgin mixtures, obtained from stopped belt or from the belt discharge using an engineer-approved sampling device and performed according to AASHTO T11 and T27.

Batch plants:

- Field extraction by ignition oven according to AASHTO T308 as modified in CMM 8-36.6.3.6, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.

Asphalt content (AC) in percent:

AC by ignition oven according to AASHTO T308 (CMM 8-36.6.3.6), by chemical extraction according to AASHTO T-164 method A or B; or by automated extraction according to ASTM D8159 as modified in CMM 8-36.6.3.1. Gradation of resulting aggregate sample determined according to AASHTO T30.

Bulk specific gravity of the compacted mixture according to AASHTO T166.

Maximum specific gravity according to AASHTO T209.

Air voids (Va) by calculation according to AASHTO T269.

VMA by calculation according to AASHTO R35.

460.2.8.2.1.4.2 Control Charts

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Maintain standardized control charts at the laboratory. Record contractor test results on the charts the same day as testing. Record data on the standardized control charts as follows:
- Blended aggregate gradation tests in percent passing. Of the following, plot sieves required in table 460-1: 37.5-mm, 25.0-mm, 19.0-mm, 12.5-mm, 9.5-mm, 4.75-mm, 2.36-mm, 1.18-mm, 0.60-mm, and 0.075-mm.
 - Asphalt material content in percent.
 - Air voids in percent.
 - VMA in percent.
- (2) Plot both the individual test point and the running average of the last 4 data points on each chart. Show QC data in black with the running average in red. Draw the warning limits with a dashed green line and the JMF limits with a dashed red line. The contractor may use computer generated black-and-white printouts with a legend that clearly identifies the specified color-coded components.

460.2.8.2.1.5 Control Limits

Replace paragraph one with the following effective with the December 2019 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
4.75-mm	+/- 5.0	+/- 4.0
2.36-mm	+/- 5.0	+/- 4.0
1.18-mm	+/- 4.0	+/- 3.0
0.60-mm	+/- 4.0	+/- 3.0
0.075-mm	+/- 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 are based on requirements for each mix design nominal maximum aggregate size in table 460-1. For No. 6 (4.75mm) mixes, JMF limits are +/- 0.5 and warning limits are +/- 0.2.

460.3.2 Thickness

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Provide the plan thickness for lower and upper layers limited as follows:

NOMINAL SIZE	MINIMUM LAYER THICKNESS (in inches)	MAX LOWER LAYER THICKNESS (in inches)	MAX UPPER LAYER THICKNESS (in inches)	MAX SINGLE LAYER THICKNESS ^[3] (in inches)
No. 1 (37.5 mm)	4.5	6	4.5	6
No. 2 (25.0 mm)	3.0	5	4	6
No. 3 (19.0 mm)	2.25	4	3	5
No. 4 (12.5 mm) ^[1]	1.75	3 ^[2]	2.5	4
No. 5 (9.5 mm) ^[1]	1.25	3 ^[2]	2	3
No. 6 (4.75 mm)	0.75	1.25	1.25	1.25

^[1] SMA mixtures use nominal size No. 4 (12.5 mm) or No. 5 (9.5 mm).

^[2] SMA mixtures with nominal sizes of No. 4 (12.5 mm) and No. 5 (9.5 mm) have no maximum lower layer thickness specified.

^[3] For use on cross-overs and shoulders.

- (2) Place leveling layers using No. 4 (12.5 mm), No. 5 (9.5 mm), or No. 6 (4.75 mm) mixtures. Leveling layers may be thinner than the minimum lower layer thickness for the mixture used.
- (3) Place wedging layers as the contract specifies or engineer directs. Wedging layers have no specified minimum or maximum thickness.

460.3.3.1 Minimum Required Density

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Compact No. 6 mixtures in lower layers as specified in 450.3.2.6.2 and in upper layers as specified in 450.3.2.6.3. For other HMA mixtures, compact all layers to the density table 460-3 specifies.

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	93.0
SHOULDERS & APPURTENANCES	LOWER	91.0	91.0	—
	UPPER	92.0	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 will investigate the acceptability of that material according to CMM 8-15.11.

^[2] Includes side roads, crossovers, turn lanes, ramps, parking lanes, bike lanes, and park-and-ride lots as defined by the contract plans.

^[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.

460.3.3.2 Pavement Density Determination

Replace paragraph three with the following effective with the December 2019 letting:

- (3) A lot is defined in CMM 8-15 and placed within a single layer for each location and target maximum density category indicated in table 460-3. The lot density is the average of all samples taken for that lot. The department determines the number of tests per lot according to CMM 8-15.

460.5.2.1 General

Replace paragraph six with the following effective with the December 2019 letting:

- (6) If during a QV dispute resolution investigation the department discovers unacceptable mixture defined by one or more of the following:
- Va less than 2.5 or greater than 6.5 percent for SMA, or for other mixes, less than 1.5 or greater than 5.0 percent.
 - VMA more than 1.0 percent below the minimum or above the maximum specified in table 460-1.
 - AC more than 0.5 % below the JMF target.

Remove and replace the material, or if the engineer allows the mixture to remain in place, the department will pay for the quantity of affected material at 50 percent of the contract price.

501.2.5.5 Sampling and Testing

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Sample and test aggregates for concrete according to the following:

Sampling aggregates ^[1]	AASHTO T2
Lightweight pieces in aggregate	AASHTO T113
Material finer than No. 200 sieve ^[1]	AASHTO T11
Unit weight of aggregate	AASHTO T19
Organic impurities in sands	AASHTO T21
Sieve analysis of aggregates	AASHTO T27
Effect of organic impurities in fine aggregate	AASHTO T71
Los Angeles abrasion of coarse aggregate	AASHTO T96
Alkali Silica Reactivity of Aggregates	ASTM C1260
Alkali Silica Reactivity of Combinations of Cementitious Materials and Aggregates	ASTM C1567
Freeze-thaw soundness of coarse aggregate ^[1]	AASHTO T103
Sodium sulfate soundness of coarse aggregates (R-4, 5 cycles)	AASHTO T104
Specific gravity and absorption of fine aggregate	AASHTO T84
Specific gravity and absorption of coarse aggregate ^[1]	AASHTO T85
Flat & elongated pieces based on a 3:1 ratio ^[1]	ASTM D4791
Sampling fresh concrete	AASHTO R60
Making and curing concrete compressive strength test specimens	AASHTO T23
Compressive strength of molded concrete cylinders	AASHTO T22

^[1] As modified in CMM 8-60.

505.2.2 Bar Steel Reinforcement

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Conform to AASHTO M31, type S or type W.

505.2.3 High-Strength Bar Steel Reinforcement

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Conform to AASHTO M31, grade 60, type S or type W.

505.2.4.1 General

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Conform to AASHTO M31, grade 60, type S or type W. Ensure that the coating is applied in a CRSI certified epoxy coating plant. Bend bars that require bending before coating, unless the fabricator can bend the bar without damaging the coating.

505.2.6.1 General

Replace paragraph one with the following effective with the December 2019 letting:

- (1) For dowel bars and straight tie bars, there is no requirement for bend tests. Ensure that the bars are the specified diameter and length the plans show.

505.2.6.2.2 Solid Dowel Bars

Replace paragraph one with the following effective with the December 2019 letting:

- (1) Furnish coated bars conforming to AASHTO M31 grade 40 or 60. Alternatively the contractor may furnish dowel bars conforming to AASHTO M227 grade 70-80. Coat in a plant certified by the Concrete Reinforcing Steel Institute with a thermosetting epoxy conforming to AASHTO M254, type B.

625.3.2 Processing Topsoil or Salvaged Topsoil

Delete paragraph four effective with the December 2019 letting.

701.3.1 General

Replace the entire text with the following effective with the December 2019 letting:

- (1) Perform contract required QC tests for samples randomly located according to CMM 8-30. Use the test methods specified in table 701-1.

TABLE 701-1 TESTING AND CERTIFICATION STANDARDS

TEST	TEST STANDARD	MINIMUM REQUIRED CERTIFICATION (any one of the certifications listed for each test)
Random Sampling	CMM 8-30.9.2	Transportation Materials Sampling Technician (TMS) Aggregate Technician I (AGGTEC-I) AGGTEC-I Assistant Certified Technician (ACT-AGG) PCC Technician I (PCCTEC-I) PCCTEC-I Assistant Certified Technician (ACT-PCC) Grading Technician I (GRADINGTEC-I) Grading Assistant Certified Technician (ACT-GRADING)
Sampling Aggregates	AASHTO T2 ^{[1][4]}	TMS, AGGTEC-1, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11 ^[1]	AGGTEC-I, ACT-AGG
Fine and coarse aggregate gradation	AASHTO T27 ^[1]	
Aggregate moisture content	AASHTO T255 ^[1]	
Fractured faces	ASTM D5821 ^[1]	
Liquid limit	AASHTO T89	Aggregate Testing for Transportation Systems (ATTS) GRADINGTEC-I, or ACT-GRADING
Plasticity index	AASHTO T90 ^[3]	
Sampling freshly mixed concrete	AASHTO R60	PCCTEC-1 ACT-PCC
Air content of fresh concrete	AASHTO T152 ^[2]	
Air void system of fresh concrete	AASHTO TP118 ^[5]	
Concrete slump	AASHTO T119 ^[2]	
Concrete temperature	ASTM C1064	
Making and curing concrete cylinders	AASHTO T23	
Moist curing for concrete cylinders	AASHTO M201	
Concrete compressive strength	AASHTO T22	Concrete Strength Tester (CST) CST Assistant Certified Technician (ACT-CST)
Concrete flexural strength	AASHTO T97	
Profiling	—	PROFILER

^[1] As modified in CMM 8-60.

^[2] As modified in CMM 8-70.

^[3] A plasticity check, if required under individual QMP provisions, may be performed by an AGGTEC-I in addition to the certifications listed for liquid limit and plasticity index tests.

^[4] Plant personnel may operate equipment to obtain samples under the direct observation of a TMS or higher.

^[5] Consolidate tests by rodding only.

715.2.1 General

Replace paragraph five with the following effective with the December 2019 letting:

- (5) For new lab-qualified mixes, test the air void system of the proposed concrete mix. Include the SAM number as a part of the mix design submittal.

715.3.1.1 General

Replace paragraph two with the following effective with the December 2019 letting:

- (2) Test the air void system at least once per lot and enter the SAM number in the MRS for information only. SAM testing is not required for the following:
- For lots with less than 4 sublots.
 - High early strength (HES) concrete.
 - Special high early strength (SHES) concrete.
 - Concrete placed under the following bid items:
 - Concrete Pavement Approach Slab
 - Concrete Masonry Culverts
 - Concrete Masonry Retaining Walls
 - Steel Grid Floor Concrete Filled
 - Crash Cushions Permanent
 - Crash Cushions Permanent Low Maintenance
 - Crash Cushions Temporary
-

730.3.1 General

Replace paragraph three with the following effective with the December 2019 letting:

- (3) Stockpile tests^[1] can be used for multiple projects. If placement on a project does not begin within 120 calendar days after the date the stockpile sample was obtained, retest the stockpile before placement begins.

^[1] Replace the stockpile test with an in-place production test for concrete pavement recycled and processed on-site; test on the first day of production.

730.3.2 Contractor QC Testing

Replace paragraph four with the following effective with the December 2019 letting:

- (4) Submit test results to the engineer within one business day of obtaining the sample, except any aggregate classification with recycled asphalt may be submitted within two business days.
-

730.3.4.1 Contractor QC Testing

Replace the entire text with the following effective with the December 2019 letting:

- (1) For small quantity contracts with ≤ 500 tons, submit 2 production tests or 1 stockpile test. Production tests are valid for 3 years from the date the production sample was obtained. Begin placement within 3 years of the date sampled.
- (2) For small quantity contracts with ≤ 6000 tons and ≥ 500 tons, do the following:
1. Conduct one QC stockpile test before placement.
 2. Submit 2 production tests or conduct 1 loadout test instead of placement tests. Production tests are valid for 3 years from the date the production sample was obtained; the first day of placement must be within 3 years of the date sampled.
 3. If the actual quantity placed is more than 6000 tons, on the next day of placement perform one additional random QC test for each 3000 tons of overrun, or fraction thereof.
-

740.3.2 Contractor QC Testing

Replace paragraph three with the following effective with the December 2019 letting:

- (3) Field-locate the beginning and ending points for each profile run. Measure the profiles of each standard and partial segment. Define primary segments starting at a project terminus and running contiguously along the mainline to the other project terminus. Define segments one wheel path wide and distinguished by length as follows:
1. Standard segments are 500 feet long.
 2. Partial segments are less than 500 feet long.

Errata

614.3.6 Thrie Beam Structure Approach Retro Fits

Correct errata by deleting the galvanization reference already required under 614.3.1.

- (2) Install posts and drill holes into existing thrie beam conforming to 614.3.2.

628.3.7 Mobilizations for Erosion Control

Correct errata by clarifying that mobilizations for erosion control include proceeding with the work.

- (1) Move personnel, equipment, and materials to the project site and promptly proceed with construction of erosion control items at the stages the contract indicates or the engineer directs.

ADDITIONAL SPECIAL PROVISION 7

- A. Reporting 1st Tier and DBE Payments During Construction
1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
 2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
 3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
 4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
 5. Require all first tier relationships, DBE firms and all other tier relationships necessary to comply with the DBE payment requirement in receipt of a progress payment by contractor to acknowledge receipt of payment as specified in A(1), (2), (3) and (4).
 6. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4) and (5), and shall be binding on all first tier subcontractor relationships and all contractors and subcontractors utilizing DBE firms on the project.
- B. Costs for conforming to this special provision are incidental to the contract.

NOTE: CRCS Prime Contractor payment is currently not automated and will need to be manually loaded into the Civil Rights Compliance System. Copies of prime contractor payments received (check or ACH) will have to be forwarded to paul.ndon@dot.wi.gov within 5 days of payment receipt to be logged manually.

***Additionally, for information on Subcontractor Sublet assignments, Subcontractor Payments and Payment Tracking, please refer to the CRCS Payment and Sublets manual at:

<https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payments-sublets-manual.pdf>

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

(1) Use the department's Civil Rights Compliance System (CRCS) to electronically submit certified payroll reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:

<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>

(2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.

(3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin their submittals. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.

(4) The department will reject all paper submittals for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.

(5) Firms wishing to export payroll/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at paul.ndon@dot.wi.gov. Not every contractor's payroll system is capable of producing export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at:

<https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>

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.

<https://wisconsindot.gov/rdwy/cmm/cm-02-28.pdf>

Upon completion of the project certify to the engineer, in writing using department form WS4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form WS4567 is available at:

<https://wisconsindot.gov/hcciDocs/contracting-info/ws4567.doc>



Proposal Schedule of Items

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Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	204.0100 Removing Pavement	61.000 SY	_____.	_____.
0004	204.0110 Removing Asphaltic Surface	309.000 SY	_____.	_____.
0006	204.0150 Removing Curb & Gutter	401.000 LF	_____.	_____.
0008	204.0155 Removing Concrete Sidewalk	637.000 SY	_____.	_____.
0010	204.0195 Removing Concrete Bases	65.000 EACH	_____.	_____.
0012	204.9105.S Removing (item description) 01. Traffic Signals STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0014	204.9105.S Removing (item description) 02. Traffic Signals STH 16 & STH WIS 67 NB Ramps	LS	LUMP SUM	_____.
0016	204.9105.S Removing (item description) 03. Traffic Signals STH 33 & CTH O	LS	LUMP SUM	_____.
0018	204.9105.S Removing (item description) 04. Traffic Signals STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0020	204.9105.S Removing (item description) 05. Traffic Signals STH 181 & County Line Rd	LS	LUMP SUM	_____.
0022	204.9105.S Removing (item description) 06. Loop Detector Wire and Lead-In Cable STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0024	204.9105.S Removing (item description) 07. Loop Detector Wire and Lead-In Cable STH 16 & STH 67 NB Ramps	LS	LUMP SUM	_____.
0026	204.9105.S Removing (item description) 08. Loop Detector Wire and Lead-In Cable STH 33 & CTH O	LS	LUMP SUM	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0028	204.9105.S Removing (item description) 09. Loop Detector Wire and Lead-In Cable STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0030	204.9105.S Removing (item description) 10. Loop Detector Wire and Lead-In Cable STH 181 & County Line Rd	LS	LUMP SUM	_____.
0032	205.0100 Excavation Common	8.000 CY	_____.	_____.
0034	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	10.360 TON	_____.	_____.
0036	213.0100 Finishing Roadway (project) 01. 3700-20-80	1.000 EACH	_____.	_____.
0038	305.0120 Base Aggregate Dense 1 1/4-Inch	126.000 TON	_____.	_____.
0040	405.0200 Coloring Concrete Custom	1.200 CY	_____.	_____.
0042	416.0610 Drilled Tie Bars	680.000 EACH	_____.	_____.
0044	416.0620 Drilled Dowel Bars	528.000 EACH	_____.	_____.
0046	416.1715 Concrete Pavement Repair SHES	180.000 SY	_____.	_____.
0048	416.1725 Concrete Pavement Replacement SHES	1,941.000 SY	_____.	_____.
0050	455.0605 Tack Coat	1.000 GAL	_____.	_____.
0052	465.0105 Asphaltic Surface	4.000 TON	_____.	_____.
0054	465.0305 Asphaltic Surface Safety Islands	39.000 TON	_____.	_____.
0056	513.2001 Railing Pipe	15.500 LF	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0058	601.0407 Concrete Curb & Gutter 18-Inch Type D	118.000 LF	_____.	_____.
0060	601.0409 Concrete Curb & Gutter 30-Inch Type A	159.000 LF	_____.	_____.
0062	601.0600 Concrete Curb Pedestrian	299.000 LF	_____.	_____.
0064	602.0410 Concrete Sidewalk 5-Inch	5,153.000 SF	_____.	_____.
0066	602.0505 Curb Ramp Detectable Warning Field Yellow	170.000 SF	_____.	_____.
0068	602.1500 Concrete Steps	77.000 SF	_____.	_____.
0070	611.8110 Adjusting Manhole Covers	3.000 EACH	_____.	_____.
0072	611.8115 Adjusting Inlet Covers	7.000 EACH	_____.	_____.
0074	619.1000 Mobilization	1.000 EACH	_____.	_____.
0076	620.0200 Concrete Median Blunt Nose	120.000 SF	_____.	_____.
0078	620.0300 Concrete Median Sloped Nose	424.000 SF	_____.	_____.
0080	625.0100 Topsoil	3,774.000 SY	_____.	_____.
0082	627.0200 Mulching	850.000 SY	_____.	_____.
0084	628.1504 Silt Fence	1,663.000 LF	_____.	_____.
0086	628.1520 Silt Fence Maintenance	1,663.000 LF	_____.	_____.
0088	628.1905 Mobilizations Erosion Control	20.000 EACH	_____.	_____.



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Contract Items

Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0090	628.1910 Mobilizations Emergency Erosion Control	10.000 EACH	_____.	_____.
0092	628.2008 Erosion Mat Urban Class I Type B	3,656.000 SY	_____.	_____.
0094	628.6510 Soil Stabilizer Type B	0.200 ACRE	_____.	_____.
0096	628.7010 Inlet Protection Type B	8.000 EACH	_____.	_____.
0098	628.7015 Inlet Protection Type C	106.000 EACH	_____.	_____.
0100	629.0210 Fertilizer Type B	2.850 CWT	_____.	_____.
0102	630.0130 Seeding Mixture No. 30	66.000 LB	_____.	_____.
0104	630.0200 Seeding Temporary	16.000 LB	_____.	_____.
0106	630.0500 Seed Water	50.000 MGAL	_____.	_____.
0108	631.0300 Sod Water	3.000 MGAL	_____.	_____.
0110	631.1000 Sod Lawn	118.000 SY	_____.	_____.
0112	634.0618 Posts Wood 4x6-Inch X 18-FT	102.000 EACH	_____.	_____.
0114	637.2210 Signs Type II Reflective H	1,090.778 SF	_____.	_____.
0116	637.2215 Signs Type II Reflective H Folding	238.720 SF	_____.	_____.
0118	637.2230 Signs Type II Reflective F	96.500 SF	_____.	_____.
0120	638.2102 Moving Signs Type II	5.000 EACH	_____.	_____.
0122	638.2602 Removing Signs Type II	105.000 EACH	_____.	_____.



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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0124	638.3000 Removing Small Sign Supports	68.000 EACH	_____.	_____.
0126	643.0300 Traffic Control Drums	3,400.000 DAY	_____.	_____.
0128	643.0410 Traffic Control Barricades Type II	145.000 DAY	_____.	_____.
0130	643.0420 Traffic Control Barricades Type III	2,680.000 DAY	_____.	_____.
0132	643.0705 Traffic Control Warning Lights Type A	2,660.000 DAY	_____.	_____.
0134	643.0715 Traffic Control Warning Lights Type C	3,030.000 DAY	_____.	_____.
0136	643.0900 Traffic Control Signs	5,060.000 DAY	_____.	_____.
0138	643.0910 Traffic Control Covering Signs Type I	4.000 EACH	_____.	_____.
0140	643.1050 Traffic Control Signs PCMS	60.000 DAY	_____.	_____.
0142	643.1070 Traffic Control Cones 42-Inch	30,595.000 DAY	_____.	_____.
0144	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0146	644.1410 Temporary Pedestrian Surface Asphalt	448.000 SF	_____.	_____.
0148	644.1601 Temporary Pedestrian Curb Ramp	155.000 DAY	_____.	_____.
0150	644.1810 Temporary Pedestrian Barricade	1,114.000 LF	_____.	_____.
0152	646.1020 Marking Line Epoxy 4-Inch	18,206.000 LF	_____.	_____.
0154	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	1,363.000 LF	_____.	_____.



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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0156	646.3020 Marking Line Epoxy 8-Inch	3,203.000 LF	_____.	_____.
0158	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	2,172.000 LF	_____.	_____.
0160	646.5020 Marking Arrow Epoxy	50.000 EACH	_____.	_____.
0162	646.5120 Marking Word Epoxy	18.000 EACH	_____.	_____.
0164	646.6120 Marking Stop Line Epoxy 18-Inch	800.000 LF	_____.	_____.
0166	646.6220 Marking Yield Line Epoxy 18-Inch	5.000 EACH	_____.	_____.
0168	646.7120 Marking Diagonal Epoxy 12-Inch	184.000 LF	_____.	_____.
0170	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,282.000 LF	_____.	_____.
0172	646.8120 Marking Curb Epoxy	862.000 LF	_____.	_____.
0174	646.8220 Marking Island Nose Epoxy	30.000 EACH	_____.	_____.
0176	646.9000 Marking Removal Line 4-Inch	828.000 LF	_____.	_____.
0178	646.9100 Marking Removal Line 8-Inch	1,340.000 LF	_____.	_____.
0180	646.9200 Marking Removal Line Wide	17.000 LF	_____.	_____.
0182	646.9300 Marking Removal Special Marking	13.000 EACH	_____.	_____.
0184	649.0150 Temporary Marking Line Removable Tape 4-Inch	9,110.000 LF	_____.	_____.
0186	649.0250 Temporary Marking Line Removable Tape 8-Inch	124.000 LF	_____.	_____.



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Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0188	650.8500 Construction Staking Electrical Installations (project) 01. 3700-20-80	LS	LUMP SUM	_____.
0190	650.9000 Construction Staking Curb Ramps	21.000 EACH	_____.	_____.
0192	650.9910 Construction Staking Supplemental Control (project) 01. 3700-20-80	LS	LUMP SUM	_____.
0194	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	2,115.000 LF	_____.	_____.
0196	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	2,311.000 LF	_____.	_____.
0198	652.0615 Conduit Special 3-Inch	4,010.000 LF	_____.	_____.
0200	652.0700.S Install Conduit into Existing Item	17.000 EACH	_____.	_____.
0202	652.0800 Conduit Loop Detector	3,852.000 LF	_____.	_____.
0204	653.0135 Pull Boxes Steel 24x36-Inch	9.000 EACH	_____.	_____.
0206	653.0140 Pull Boxes Steel 24x42-Inch	58.000 EACH	_____.	_____.
0208	653.0905 Removing Pull Boxes	90.000 EACH	_____.	_____.
0210	654.0101 Concrete Bases Type 1	19.000 EACH	_____.	_____.
0212	654.0105 Concrete Bases Type 5	12.000 EACH	_____.	_____.
0214	654.0110 Concrete Bases Type 10	9.000 EACH	_____.	_____.
0216	654.0113 Concrete Bases Type 13	9.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20200211019 Project(s): 3700-20-80

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SECTION: 0001

Contract Items

Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0218	654.0217 Concrete Control Cabinet Bases Type 9 Special	3.000 EACH	_____.	_____.
0220	655.0230 Cable Traffic Signal 5-14 AWG	3,460.000 LF	_____.	_____.
0222	655.0240 Cable Traffic Signal 7-14 AWG	3,006.000 LF	_____.	_____.
0224	655.0260 Cable Traffic Signal 12-14 AWG	4,896.000 LF	_____.	_____.
0226	655.0270 Cable Traffic Signal 15-14 AWG	1,675.000 LF	_____.	_____.
0228	655.0290 Cable Traffic Signal 21-14 AWG	1,798.000 LF	_____.	_____.
0230	655.0320 Cable Type UF 2-10 AWG Grounded	5,539.000 LF	_____.	_____.
0232	655.0515 Electrical Wire Traffic Signals 10 AWG	10,296.000 LF	_____.	_____.
0234	655.0610 Electrical Wire Lighting 12 AWG	5,253.000 LF	_____.	_____.
0236	655.0700 Loop Detector Lead In Cable	18,813.000 LF	_____.	_____.
0238	655.0800 Loop Detector Wire	17,222.000 LF	_____.	_____.
0240	655.0900 Traffic Signal EVP Detector Cable	4,564.000 LF	_____.	_____.
0242	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. STH 33 & CTH O	LS	LUMP SUM	_____.
0244	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0246	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. STH 181 & County Line Rd	LS	LUMP SUM	_____.



Proposal Schedule of Items

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Proposal ID: 20200211019 Project(s): 3700-20-80

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0248	657.0100 Pedestal Bases	19.000 EACH	_____.	_____.
0250	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	12.000 EACH	_____.	_____.
0252	657.0322 Poles Type 5-Aluminum	12.000 EACH	_____.	_____.
0254	657.0405 Traffic Signal Standards Aluminum 3.5-FT	1.000 EACH	_____.	_____.
0256	657.0420 Traffic Signal Standards Aluminum 13-FT	3.000 EACH	_____.	_____.
0258	657.0425 Traffic Signal Standards Aluminum 15-FT	11.000 EACH	_____.	_____.
0260	657.0430 Traffic Signal Standards Aluminum 10-FT	4.000 EACH	_____.	_____.
0262	657.0605 Luminaire Arms Single Member 4 1/2-Inch Clamp 4-FT	2.000 EACH	_____.	_____.
0264	657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	12.000 EACH	_____.	_____.
0266	658.0173 Traffic Signal Face 3S 12-Inch	64.000 EACH	_____.	_____.
0268	658.0174 Traffic Signal Face 4S 12-Inch	36.000 EACH	_____.	_____.
0270	658.0416 Pedestrian Signal Face 16-Inch	16.000 EACH	_____.	_____.
0272	658.0500 Pedestrian Push Buttons	12.000 EACH	_____.	_____.
0274	658.5069 Signal Mounting Hardware (location) 01. STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0276	658.5069 Signal Mounting Hardware (location) 02. STH 16 & STH 67 NB Ramps	LS	LUMP SUM	_____.



Proposal Schedule of Items

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Proposal ID: 20200211019 Project(s): 3700-20-80

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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0278	658.5069 Signal Mounting Hardware (location) 03. STH 33 & CTH O	LS	LUMP SUM	_____.
0280	658.5069 Signal Mounting Hardware (location) 04. STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0282	658.5069 Signal Mounting Hardware (location) 05. STH 181 & County Line Rd	LS	LUMP SUM	_____.
0284	659.1125 Luminaires Utility LED C	39.000 EACH	_____.	_____.
0286	661.0200 Temporary Traffic Signals for Intersections (location) 01. STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0288	661.0200 Temporary Traffic Signals for Intersections (location) 02. STH 16 & STH 67 NB Ramps	LS	LUMP SUM	_____.
0290	661.0200 Temporary Traffic Signals for Intersections (location) 03. STH WIS 33 & CTH O	LS	LUMP SUM	_____.
0292	661.0200 Temporary Traffic Signals for Intersections (location) 04. STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0294	661.0200 Temporary Traffic Signals for Intersections (location) 05. STH 181 & County Line Rd	LS	LUMP SUM	_____.
0296	690.0150 Sawing Asphalt	242.000 LF	_____.	_____.
0298	690.0250 Sawing Concrete	3,361.000 LF	_____.	_____.
0300	SPV.0060 Special 01. Concrete Base Type 10 Special	4.000 EACH	_____.	_____.
0302	SPV.0060 Special 02. Install Poles Type 10	9.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20200211019 Project(s): 3700-20-80

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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0304	SPV.0060 Special 03. Install Poles Type 10 Special	4.000 EACH	_____.	_____.
0306	SPV.0060 Special 04. Install Poles Type 12	2.000 EACH	_____.	_____.
0308	SPV.0060 Special 05. Install Poles Type 13	5.000 EACH	_____.	_____.
0310	SPV.0060 Special 06. Install Poles Type 13-Over Height	2.000 EACH	_____.	_____.
0312	SPV.0060 Special 07. Install Monotube Arms 15-FT	2.000 EACH	_____.	_____.
0314	SPV.0060 Special 08. Install Monotube Arms 25-FT	2.000 EACH	_____.	_____.
0316	SPV.0060 Special 09. Install Monotube Arms 30-FT	5.000 EACH	_____.	_____.
0318	SPV.0060 Special 10. Install Monotube Arms 35-FT	1.000 EACH	_____.	_____.
0320	SPV.0060 Special 11. Install Monotube Arms 40-FT	2.000 EACH	_____.	_____.
0322	SPV.0060 Special 12. Install Monotube Arms 45-FT	1.000 EACH	_____.	_____.
0324	SPV.0060 Special 13. Install Monotube Arms 50-FT	5.000 EACH	_____.	_____.
0326	SPV.0060 Special 14. Install Monotube Arms 55-FT	4.000 EACH	_____.	_____.
0328	SPV.0060 Special 15. Install Luminaire Arms Steel 15-FT	25.000 EACH	_____.	_____.
0330	SPV.0060 Special 16. Pull Boxes Steel Lids & Frames	11.000 EACH	_____.	_____.
0332	SPV.0060 Special 17. Expose Existing Utility	9.000 EACH	_____.	_____.
0334	SPV.0060 Special 18. Abandoning Pull Boxes	4.000 EACH	_____.	_____.



Proposal Schedule of Items

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Proposal ID: 20200211019 Project(s): 3700-20-80

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Contract Items

Alt Set ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0336	SPV.0090 Special 01. Concrete Curb and Gutter Variable Width Type A	125.000 LF	_____.	_____.
0338	SPV.0090 Special 02. Removing Railing	14.000 LF	_____.	_____.
0340	SPV.0105 Special 01. Trans & Inst State Furnished Traffic Sgnl Cabinet STH16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0342	SPV.0105 Special 02. Trans & Inst State Furnished Traffic Sgnl Cabinet STH16 & STH 67 NB Ramps	LS	LUMP SUM	_____.
0344	SPV.0105 Special 03. Trans & Inst State Furnished Traffic Sgnl Cabinet STH 33 & CTH O	LS	LUMP SUM	_____.
0346	SPV.0105 Special 04. Trans & Inst State Furnished Traffic Sgnl Cabinet STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0348	SPV.0105 Special 05. Trans & Inst State Furnished Traffic Sgnl Cabinet STH 181 & County Line Rd	LS	LUMP SUM	_____.
0350	SPV.0105 Special 06. Temporary Vehicle Detection STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0352	SPV.0105 Special 07. Temporary Vehicle Detection STH 16 & STH 67 NB Ramps	LS	LUMP SUM	_____.
0354	SPV.0105 Special 08. Temporary Vehicle Detection STH 33 & CTH O	LS	LUMP SUM	_____.
0356	SPV.0105 Special 09. Temporary Vehicle Detection STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0358	SPV.0105 Special 10. Temporary Vehicle Detection STH 181 & County Line Rd	LS	LUMP SUM	_____.



Proposal Schedule of Items

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Proposal ID: 20200211019 Project(s): 3700-20-80

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Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0360	SPV.0105 Special 11. Trans & Inst State Furnished Radar Detection System STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0362	SPV.0105 Special 12. Trans & Inst State Furnished Radar Detection System STH 181 & County Line Rd	LS	LUMP SUM	_____.
0364	SPV.0105 Special 13. Trans & Inst State Frnshd Emerg Veh Pre Dtr Heads STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0366	SPV.0105 Special 14. Trans & Inst State Frnshd Emerg Veh Pre Dtr Heads STH 16 & STH 67 NB Ramps	LS	LUMP SUM	_____.
0368	SPV.0105 Special 15. Trans & Inst State Frnshd Emerg Veh Pre Dtr Heads STH 33 & CTH O	LS	LUMP SUM	_____.
0370	SPV.0105 Special 16. Trans & Inst State Frnshd Emerg Veh Pre Dtr Heads STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0372	SPV.0105 Special 17. Trans Traffic Signal & Int Lighting Materials STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0374	SPV.0105 Special 18. Trans Traffic Signal & Int Lighting Materials STH 16 & STH 67 NB Ramps	LS	LUMP SUM	_____.
0376	SPV.0105 Special 19. Trans Traffic Sgnl & Int Lighting Materials STH 33 & CTH O	LS	LUMP SUM	_____.
0378	SPV.0105 Special 20. Trans Traffic Sgnl & Int Lighting Materials STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0380	SPV.0105 Special 21. Trans Traffic Sgnl & Int Lighting Materials STH181 & County Line Rd	LS	LUMP SUM	_____.



Proposal Schedule of Items

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Proposal ID: 20200211019 Project(s): 3700-20-80

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SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0382	SPV.0105 Special 22. Remove Salvage & Reinst Fiber Optic Traff Sgnl Equip STH 33 & CTH O	LS	LUMP SUM	_____.
0384	SPV.0105 Special 23. Remove Salvage & Reinst Fiber Optic Traff Sgnl Equip STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0386	SPV.0105 Special 24. Remove Salvage & Reinst Fiber Optic Traff Sgnl Equip STH181 & County Line Rd	LS	LUMP SUM	_____.
0388	SPV.0105 Special 25. Transprt & Install State Frnshd Audible Ped Signal System STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0390	SPV.0105 Special 26. Temporary Emergency Vehicle Preemption (EVP) System STH 16 & STH 67 SB Ramps	LS	LUMP SUM	_____.
0392	SPV.0105 Special 27. Temporary Emergency Vehicle Preemption (EVP) System STH 16 & STH 67 NB Ramps	LS	LUMP SUM	_____.
0394	SPV.0105 Special 28. Temporary Emergency Vehicle Preemption (EVP) System STH 33 & CTH O	LS	LUMP SUM	_____.
0396	SPV.0105 Special 29. Temporary Emergency Vehicle Preemption (EVP) System STH 59/164 & CTH Y	LS	LUMP SUM	_____.
0398	SPV.0165 Special 01. Exposed Aggregate Concrete Sidewalk 5-inch	179.000 SF	_____.	_____.
0400	SPV.0165 Special 02. Remove and Restore Brick Sidewalk	20.000 SF	_____.	_____.

Section: 0001

Total:

Total Bid:

PLEASE ATTACH SCHEDULE OF ITEMS HERE



Wisconsin Department of Transportation

January 29, 2020

**Division of Transportation Systems
Development**

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #19: 3700-20-80
Replace Existing Signals
Various Signalized Intersections
Various Highways
Milwaukee, Ozaukee and Waukesha Counties

Letting of February 11, 2020

This is Addendum No. 01, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
7	Utilities

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

3700-20-80

January 29, 2020

Special Provisions

7. Utilities.

Replace entire article language with the following:

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

stp-107-065 (20080501)

Underground and overhead utility facilities are located within the project limits. Utility adjustments are not anticipated for this construction project. Coordinate construction activities with a call to Diggers Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

When utility adjustments become necessary during construction the utility owner will make the required adjustments in coordination with the contractor's construction operation.

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

The following utilities are adjusted as part of this contract:

WisDOT Lighting

WisDOT Signals

The following utilities have facilities within the construction limits:

The **Waukesha Water Utility** has water valve boxes at the STH 59/164 (Les Paul Parkway) and CTH Y (Racine Ave.) intersection that will be adjusted during construction by city forces. Coordinate this work by contacting the city seven days in advance of needing the adjustments. City will need one-half day to adjust each valve boxes. Contact the City of Waukesha Water Dept. at 262-521-5272.

The following utilities have facilities within the construction limits, however, **no adjustments are anticipated:**

- ANR Pipeline Co
- AT&T Legacy
- AT&T Local
- AT&T Wisconsin
- Charter Communications
- City of Mequon Water
- City of Milwaukee Electric
- City of Milwaukee Sewer
- City of Milwaukee Water
- City of Oconomowoc Electric
- City of Oconomowoc Sewer
- City of Oconomowoc Water

- City of Waukesha Sewer
- City of Waukesha Water
- Level 3 Communications
- Port Washington/Saukville School District
- WisDOT STOC
- Village of Saukville Sewer
- Village of Saukville Water
- We Energies Electric

We Energies Electric has facilities within the construction limits. It is imperative that the highway contractor contact We Energies if removing any electrical underground cables, to verify that they have been discontinued and carry no electrical current. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification. We Energies Electric Dispatch #1-800-662-4797.

- We Energies Gas

We Energies Gas has facilities within the construction limits. It is imperative that the highway contractor contact We Energies if removing any gas facilities, to verify that they have been discontinued and carry no natural gas. The contractor must not assume that unmarked facilities have been discontinued. At no time is it acceptable to push, pull, cut or drill an unmarked facility without explicit consent from We Energies. Contractor must call the We Energies 24-hour Dispatch lines to arrange for this verification. We Energies Gas Dispatch #1-800-261-5325.

END OF ADDENDUM

