

# HIGHWAY WORK PROPOSAL

Wisconsin Department of Transportation  
DT1502 01/2020 s.66.0901(7) Wis. Stats

Proposal Number: **011**

<u>STATE ID</u>	<u>FEDERAL ID</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>	<u>COUNTY</u>
2410-47-70	N/A	IH 94 East West, National Avenue, 70th Street to Miller Park Way	STH 059	Milwaukee

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: May 13, 2025 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time November 14, 2025	<b>SAMPLE NOT FOR BIDDING PURPOSES</b>
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

<b>Type of Work:</b> Removals, Grading, Aggregate, Concrete Pavement, Curb and Gutter, Concrete Sidewalk, Storm Sewer, Erosion Control, Permanent Signing, Traffic Control, Pavement Marking, Lighting, Traffic Signals, Restoration.	<b>For Department Use Only</b>
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH  
PROPOSAL GUARANTY HERE**

## **PROPOSAL REQUIREMENTS AND CONDITIONS**

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

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

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

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

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

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

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

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

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

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

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

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

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

## BID PREPARATION

### **Preparing the Proposal Schedule of Items**

#### **A. General**

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

<https://wisconsin.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](http://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://wisconsin.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:
  4. Have a properly executed annual bid bond on file with the department.
  5. 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<sup>TM</sup> generated schedule of items is not the same on each page.
  2. The check code printed on the printout of the Expedite<sup>TM</sup> 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.

**B 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)

## 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]

## **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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## **STSP'S Revised January 8, 2025**

### **SPECIAL PROVISIONS**

#### **1. General.**

Perform the work under this construction contract for Project 2410-47-70, IH 94 East West, National Avenue, 70<sup>th</sup> Street to Miller Park Way, STH 59 in Milwaukee County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2025 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 (20250108)

#### **2. Scope of Work.**

The work under this contract shall consist of removals, concrete pavement, base aggregate, traffic signals, storm sewer, concrete curb and gutter, erosion control, traffic control, pavement marking, signing, lighting 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.**

Do not begin work prior to 6:00 AM Monday, July 7, 2025. Begin work after the engineer issues a written notice to do so.

Provide the start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within 10 calendar days before the approved start date.

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

#### **Interim Completion and Liquidated Damages – Brewers Boulevard/Miller Park Way and National Avenue Long Term Lane Closures: September 26, 2025**

Complete construction operations on Brewers Boulevard/Miller Park Way and National Avenue to the stage necessary to reopen all lanes to through traffic by September 26, 2025. Do not reopen lanes until completing the following work: Concrete pavement, concrete curb & gutter, curb ramps, concrete sidewalk, pavement marking, signing and restoration. Temporary traffic signal operation in the final proposed lane configuration is acceptable.

If the contractor fails to complete the work necessary to reopen all lanes on Brewers Boulevard/Miller Park Way and National Avenue to traffic by September 26, 2028, the department will assess the contractor \$2,500 in interim liquidated damages for each calendar day the contract work remains incomplete beyond 12:01 AM on September 27, 2025. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

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

#### **Anticipated Schedule Project 2410-47-70**

Traffic shifts shown in a given stage may occur at different times during that stage depending on the controlling elements for a given traffic movement. The department anticipates that the schedule for each stage shall be as follows:

Anticipated schedule: Do not move to the next stage until all work in the current stage is completed or as approved by the engineer.

**Stage 1 Construction:**

- Construct widening of National Avenue from 50+00 to 57+00, LT.
- Construct sidewalk in NE quadrant at Brewers Boulevard/National Avenue intersection.
- Construct median along Brewers Boulevard/Miller Park Way from 41+00 to 48+00.
- Install temporary traffic signal at the intersection of STH 59 (National Avenue) & STH 175 (Brewers Boulevard/Miller Park Way). Refer to the Temporary Traffic Signal Plans for further instruction.
- Install temporary traffic signal at the intersection of STH 59 (National Avenue) & 47<sup>th</sup> Street. Refer to the Temporary Traffic Signal Plans for further instruction.

**Stage 2A Construction:**

- Construct widening of National Avenue from 43+00 to 50+00, LT.
- Construct sidewalk in NW quadrant at Brewers Boulevard/Miller Park Way and National Avenue intersection.
- Construct sidewalk in NE quadrant at Brewers Boulevard/Miller Park Way and National Avenue intersection.
- Construct sidewalk in SE quadrant at Brewers Boulevard/Miller Park Way and National Avenue intersection.

**Stage 2B Construction:**

- Construct widening of National Avenue from 43+00 to 50+00.
- Construct sidewalk in SW quadrant at Brewers Boulevard/Miller Park Way and National Avenue intersection.
- Construct curb and gutter in NE quadrant at Brewers Boulevard/Miller Park Way and National Avenue intersection.
- Construct sidewalk in SW quadrant at 47<sup>th</sup> Street/National Avenue intersection.

**Stage 3 Construction:**

- Construct sidewalk in SE quadrant at 48<sup>th</sup> Street/National Avenue intersection.
- Construct sidewalk in SE quadrant at 47<sup>th</sup> Street/National Avenue intersection.
- Construct median along National Avenue from 56+00 to 59+00.
- At the conclusion of Stage 3, the temporary traffic signals may continue to be operated with all lanes open until the permanent traffic signals are fully installed and functional. Refer to the temporary traffic signal plans.
- Complete signing, marking, and landscaping items

**Finishing:**

- Complete traffic signal installations

Traffic signal and pavement marking work within the City of West Allis at the STH 59/70th St and STH 59/National Avenue/Greenfield Avenue intersections is independent of the Staging concept in the plans. Traffic signal and pavement marking work shall occur after the Wisconsin State Fair as stated in the Special Event Restrictions. Long term lane closures on Greenfield Avenue shall be restricted in duration to only the period of time required to install the proposed monotube bases, poles, arms, and traffic signal equipment.

## **Contractor Coordination**

Provide an individual to serve as the contractor's sole point of contact for field utility coordination and communication for the duration of the project.

Notify the engineer and all businesses impacted by traffic control within the project limits five business days in advance of lane closures or access restrictions to their houses or business.

## **Work Restrictions – WIS 175/Brewers Boulevard/Miller Park Way, WIS 59/National Avenue, WIS 59/Greenfield Avenue and 70<sup>th</sup> Street**

### **Definitions**

The following definitions apply to this contract for WIS 175/Brewers Boulevard/Miller Park Way, STH 59/National Avenue, STH 59/Greenfield Avenue and 70<sup>th</sup> Street work restrictions:

#### **Peak Hours**

6:00 AM – 9:00 AM	Monday, Tuesday, Wednesday, Thursday, Friday
3:00 PM – 6:00 PM	Monday, Tuesday, Wednesday, Thursday, Friday

#### **Off-Peak Hours (Single Lane Closure)**

9:00 AM – 3:00 PM	Monday, Tuesday, Wednesday, Thursday, Friday
6:00 PM – 8:00 PM	Monday, Tuesday, Wednesday, Thursday, Friday

#### **Nighttime Hours (Single or Double Lane Closure)**

8:00 PM – 6:00 AM	Sunday, Monday, Tuesday, Wednesday, Thursday
8:00 PM – 6:00 AM	Friday PM to Monday AM

Do not close lanes or restrict turning movements and ensure that the lanes are entirely clear for traffic during peak hours, except as shown in the traffic control plans.

Maintain the existing number of lanes in each direction on National Avenue, Greenfield Avenue and 70<sup>th</sup> Street during Peak Hours, unless otherwise shown in the traffic control plans, or as approved by the engineer.

Maintain three lanes in each direction during Peak Hours, two lanes in each direction during Off-Peak Hours and one lane in each direction during Nighttime Hours on STH 175/Brewers Boulevard/Miller Park Way, unless otherwise shown in the traffic control plans, or as approved by the engineer. Close service ramps only during Nighttime Hours, unless otherwise specified in the plan, or unless otherwise approved by the engineer for safety or operational reasons associated with other adjacent lane or freeway closures.

Follow plan details for closures. Lane restrictions of the freeway beyond that shown on the traffic control plans are subject to lane rental assessments and must be approved by the engineer. If plan details are not provided in the traffic control plan, furnish plans for review by the engineer. Once approved, allow at least three business days prior to the closure of roadway, lane, and ramp as identified in other articles in these special provisions.

Do not, at any time, conduct construction operations in the median area and adjacent outside shoulder area of the local street at the same time without obtaining prior permission of the engineer, beyond that shown on the traffic control plans.

Do not begin or continue any work that closes local street traffic lanes or intersection outside the allowed time periods specified in this contract. If the contractor fails to open local roadway lanes of traffic and/or intersections to traffic by the specified times, assessments shown in the article Lane Rental Assessment will be placed upon the contractor based on the hourly rental rate that the non-compliant closure occurs. The total assessment to the contractor will be the summation of the separate assessments for each local street traffic lane and local street intersection closure violation.

Permitting the contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the date to which the time for completion may have been extended, will in no way operate as a waiver on the part of the department of any of its rights under the contract.

Pavement marking on National Avenue and Brewers Boulevard/Miller Park Way shall be completed during Nighttime hours as provided in the definitions.

Concrete pavement repair SHES and concrete pavement replacement SHES locations shall be determined in the field by the engineer. Pavement repair and replacement locations will require additional short-term lane closures and completed during Nighttime hours as provided in the definitions.

The erection of mast arms for traffic signal monotubes shall be completed during Nighttime hours as provided in the definitions.

If drilling operations for traffic signal bases require additional short-term lane closures or lane shifts for equipment access, the work shall be completed during Nighttime hours as provided in the definitions.

### **Maintenance**

Provide the Wisconsin State Patrol, Milwaukee County Highway Maintenance, Village of West Milwaukee Police Department, the City of West Allis Police Department, and Milwaukee County Sheriff's Department with a 24-hour emergency contact number for when maintenance is required.

### **Work Off Right-of-Way**

The plans specify traffic control devices, signing, and pavement marking off the right-of-way on Veterans Administration (VA) property. The plans have been reviewed and approved by the VA. Coordinate work on the VA property with Linda Sue Schwarz at (414) 384-2000 x 41091.

### **Protection of Endangered Bats (Tree Clearing)**

Federally protected bats have the potential to inhabit the project limits because they roost in trees, bridges and culverts. Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work, and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

Ensure all operators, employees, and subcontractors working in areas of known or presumed bat habitat are aware of environmental commitments and avoidance and minimization measures (AMMs) to protect both bats and their habitat.

Direct temporary lighting, if used, away from wooded areas during the bat active season April 15 to October 31, both dates inclusive.

The department has contracted with others and will perform the following operations after October 31 and prior to April 15:

- Cutting down and removing trees.

Contractor means and methods to remove additional trees will not be allowed. If it is determined that additional trees with a 3-inch or greater diameter at breast height (dbh) need to be removed beyond contractor means and methods, notify the engineer to coordinate with the WisDOT REC to determine if consultation with United States Fish and Wildlife Service (USFWS) is required. The contractor must be aware that the WisDOT REC and/or USFWS may not permit modifications.

## **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 Prosecution and Progress 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:

Brewers Boulevard/Miller Park Way, National Avenue, Greenfield Avenue and 70<sup>th</sup> Street Off Peak/Nighttime Lane Closure During and/or Extending into Peak Hours

- 2 lanes to 1 lane: \$1,000 per lane, per direction of travel, per hour broken into 15 minute increments
- 3 lanes to 2 lane: \$1,000 per lane, per direction of travel, per hour broken into 15 minute increments
- 3 lanes to 1 lane: \$4,000 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.**

Supplement standard spec 643.3.1 with the following:

STH 175/Brewers Boulevard, STH 59/National Avenue, STH 59/Greenfield Avenue and 70<sup>th</sup> Street is an OSOW route. All fixed message and width restricted signs must be in place prior to the beginning of the width restricted stage to inform multi trip permit holders to utilize alternate routes. See Wisconsin Lane Closure System Advance Notification article to address lane restrictions in LCS.

STH 59/Greenfield Ave and 70<sup>th</sup> Street are identified as a High Clearance route for trucks.

Provide the Milwaukee County Sheriff's Department, the Wisconsin State Patrol, Village of West Milwaukee Police Department, City of West Allis Police Department and the project engineer a current telephone number with which the contractor or his representative can be contacted during non-working hours in the event a safety hazard develops.

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

Yield to all through traffic at all locations. Equip all vehicles or equipment operating in the live traffic lanes with a hazard identification beam (flashing yellow signal light) that is visible from 360 degrees. Operate the flashing yellow beam only when merging or exiting live traffic lanes or when parked or operating on shoulders, except when parked behind barrier wall. Do not park personal vehicles within the access control limits of the freeway. Do not cross live traffic lanes of STH 175/Brewers Boulevard with equipment or vehicles.

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

Do not disturb, remove, or obliterate any traffic control signs, advisory signs, sand barrel array, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer.

## **General**

Keep STH 175/Brewers Boulevard/Miller Park Way, National Avenue, Greenfield Avenue, 70<sup>th</sup> Street and all service ramps open to through traffic at all times for the duration of this project except as noted below and in the Prosecution and Progress article in these special provisions.

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

Unless detailed in the plans, do not begin or continue any work that closes traffic lanes outside the allowed time periods specified in the Prosecution and Progress article.

Maintain emergency vehicle access at all times.

Prior to any traffic control being placed, provide the engineer, Wisconsin State Patrol, Milwaukee County Sheriff's Office, Village of West Milwaukee Police Department, City of West Allis Police Department and the project engineer with the name and telephone number of a local person responsible for the emergency maintenance of traffic control.

Coordinate all traffic handling with the engineer. Place roadway signing as detailed on the plans and in conformance with the Manual on Uniform Traffic Control Devices (MUTCD), latest edition.

Employ such flag persons, signs, barricades, and drums as may be necessary to safeguard or protect hazards in the work zone, such as exposed manholes or drop-offs for vehicles and direct traffic at locations where construction operations may interfere or restrict the smooth flow of traffic. Make arrangements and be responsible for the prompt replacement of damaged or dislocated traffic control or guidance signs, day or night.

Traffic requirements under this contract shall be coordinated with other adjacent and concurrent Department of Transportation or local municipality projects. The contractor shall be responsible for implementing and coordinating with other contractors all traffic control as shown on the plans. Modifications to the traffic control plan may be required by the engineer to be safe and consistent with adjacent work by others.

## **Residential and Business Property Access**

Maintain access to properties along Miller Park Way, STH 59 (National Avenue) and STH 59 (Greenfield Ave). Maintain and keep open the access to the driveway and parking lots where alternative access is not available at all times.

## **Street Parking**

Coordinate no parking zones with the local municipality if they are required for construction, traffic control operations and/or pavement marking operations. Post the signs as directed by the engineer. No parking restrictions for pavement marking are restricted to one direction at a time and during Nighttime hours as provided in the definitions.

## **Ramp Closures**

All entrance and exit ramps shall be posted three business days in advance of their closure with dates and time of closure.

No two consecutive entrance ramps or consecutive exit ramps may be closed unless it is shown in the traffic control plans or approved by the engineer.

## **Rolling Closure**

Short term freeway mainline rolling closures may be allowed for a maximum of 15 minutes for the removal and erection of sign structures, equipment moves across the road, or other required work as determined by the engineer. The department will allow short term rolling closures only between 2 AM and 4 AM, and they may only be performed by freeway law enforcement.

Obtain approval from the engineer before coordinating these closures with freeway law enforcement. Coordinate 14 calendar days before closure. Present the scheduled time for the short term rolling closure at the weekly traffic meeting a minimum of one week before the closure.

sef-108-031 (20170406)

## **Portable Changeable Message Signs**

Obtain acceptance from the engineer regarding the wording of all messages on portable changeable message signs prior to placing the message.

## **Pedestrian Access**

Keep sidewalks open unless otherwise shown on the plans or as approved by the engineer. Maintain pedestrian access to adjacent properties, businesses, schools, and at bus stops or provide where necessary, as directed by the engineer.

Provide adequate temporary pedestrian facilities and bridging between the curb and right-of-way line over freshly paved concrete or other obstructions in the sidewalk area, as directed by the engineer.

Construct the temporary surface to meet Americans with Disabilities Act Accessibility Guidelines (ADAAG) requirements. Gravel or base course material is not acceptable. The Temporary Pedestrian Surface bid items are payment for maintaining crosswalks and sidewalks through the construction zone.

Maintain pedestrian movements crossing the construction zone at all intersections at all times, unless otherwise directed by the engineer. At all times, ADAAG accessible pedestrian walkways shall be maintained free from mud, sand, construction debris, and construction equipment. Closures of sidewalk must be approved by the engineer and conform to signing shown on the traffic control plan. At locations where crosswalks exist on both sides of the intersection, closure of one of the two crosswalks is permitted as long as all other crossings are completely open. At intersections where only one crosswalk exists, stage work to maintain a crosswalk at all times.

## **Traffic Staging**

Traffic shifts shown in a given stage may occur at different times during that stage depending on the controlling elements for a given traffic movement as approved by the engineer. The department anticipates that the schedule of traffic shifts and roadway openings and closings for each stage shall be as follows, unless approved by the engineer:

### **Stage 1 Traffic:**

- Close inside lane of STH 175 SB.
- Close outside right turn lane of STH 175 SB.
- Close inside lane of Miller Park Way NB.
- Close outside lane of STH 59 (National Avenue) WB.
- Close parking lane of STH 59 (National Avenue) EB.
- Close 47<sup>th</sup> Street North approach at STH 59 (National Avenue).
- Close 48<sup>th</sup> Street South Approach at STH 59 (National Avenue).

### **Stage 2A Traffic:**

- Close outside lane of STH 175 SB.
- Close inside right turn lane STH 175 SB.
- Close outside lane of Miller Park Way NB.
- Close outside lane of STH 59 (National Avenue) WB.
- Close parking lane of STH 59 (National Avenue) EB.
- Close 48<sup>th</sup> Street North and South approaches at STH 59 (National Avenue).

### **Stage 2B Traffic:**

- Close outside lane of STH 175 SB.
- Close inside right turn lane STH 175 SB.
- Close outside lane of Miller Park Way NB.
- Close 48<sup>th</sup> Street North and South approaches at STH 59 (National Avenue).
- Close right turn lane of STH 59 (National Avenue) EB at Miller Park Way.
- Close outside lane of Miller Park Way SB.

### **Stage 3 Traffic:**

- Close outside lane of STH 175 SB.

- Close inside right turn lane STH 175 SB.
- Close outside lane of Miller Park Way NB.
- Close inside lanes of STH 59 (National Avenue) WB.
- Close inside lane of STH 59 (National Avenue) EB. Shift traffic to outside parking lane at 47<sup>th</sup> Street.
- Close 48<sup>th</sup> Street North and South approaches at STH 59 (National Avenue).

#### **Finishing Traffic:**

- Short-term lane closures only to complete electrical, signing, marking, and landscaping

#### **West Allis Intersection Traffic:**

- Close outside lane of STH 59 (Greenfield Avenue) EB and WB at STH 59 (National Avenue) to install traffic signal monotubes.
- Using short-term closures, close inside lane of 70<sup>th</sup> Street STH 59 (Greenfield Avenue) to complete signal work

#### **Wisconsin Lane Closure System Advance Notification**

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

**TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION**

<b>Closure type with height, weight, or width restrictions (available width, all lanes in one direction &lt; 16 feet)</b>	<b>MINIMUM NOTIFICATION</b>
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
<b>Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥ 16 feet)</b>	<b>MINIMUM NOTIFICATION</b>
Shoulder Closures	3 calendar days
Lane 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.

Notify the engineer and TMP Team Lead, if there are any changes in the schedule, early completions, or cancellations of scheduled work.

## **6. Holiday and Special Event Work Restrictions.**

#### **Holiday Work Restrictions**

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 175/Brewers Boulevard/Miller Park Way, STH 59/National Avenue, STH 59/Greenfield Avenue and 70<sup>th</sup> Street 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 and special event periods:

- From noon Thursday, July 3, 2025 to 6:00 AM Monday, July 7, 2025 for Independence Day
- From noon Friday, August 29, 2025 to 6:00 AM Tuesday, September 2, 2025 for Labor Day



Long term lane and roadway closures shown on the plans may remain in place during holiday work restrictions.

### **Special Event Work Restrictions**

Veteran's Day is on November 11, 2025. No short-term lane closures shall be allowed from 6:00 AM to 8:00 PM on Tuesday November 11, 2025.

During Milwaukee Brewers home games, no short-term lanes closures will be allowed until four hours after the beginning of the event in all directions. This applies to the project limits within the Village of West Milwaukee.

During other special events at American Family Field, restrictions will be defined during construction on an as needed basis as determined by the engineer.

The Wisconsin State Fair is from July 31, 2025 through August 10, 2025. Traffic signal and pavement marking work within the City of West Allis at the STH 59/70th St and STH 59/National Avenue/Greenfield Avenue intersections shall not begin until after 6:00 AM Monday August 11, 2025.

During other special events at the Wisconsin State Fair Park, restrictions will be defined during construction on an as needed basis as determined by the engineer.

These restrictions also apply to hauling of materials and equipment. Long term lane and roadway closures shown on the plans may remain in place during special event work restrictions.

stp-107-005 (20210113)

## **7. Utilities.**

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

The utility work plan includes additional detailed information regarding the location of known discontinued, relocated, or removed utility facilities. These can be requested from the department during the bid preparation process, or from the project engineer after the contract has been awarded and executed.

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

stp-107-065 (20240703)

Any utility facility locations (stations, offsets, elevations, depths) listed in this article are approximate.

The following utilities will require work during construction:

**City of Milwaukee – Water (Milwaukee Water Works (MWW))** has underground water facilities within the project limits. There are water valve boxes and water manholes associated with these water mains. The water mains will remain in place without adjustment.

During construction adjust water valve boxes and water manholes and protect water main along the 24-inch water main as shown in the plans and bid items.

Maintain access to hydrants within the construction area at all times.

**Milwaukee Metropolitan Sewerage District (MMSD)** has underground sanitary sewer facilities within the project limits. These facilities will remain in place without adjustment except as noted below. Verify location and depth of MMSD sewers prior to performing construction around them.

During construction MMSD will adjust MH 60202 at Station 59NL+03, 29' LT. Contact Michael Lee at 414-225-2241 (office) or 414-617-1429 (cell) prior to coordinate the adjustment. Work is estimated to take approximately 1 working day.

**Village of West Milwaukee – Sewer** has underground sewers within the project limits. These facilities will remain in place without adjustment except as noted below.

During construction reconstruct the sanitary manhole at Station 45MK+34, 19' LT, as shown in the plans and bid items.

Contact Jason Jourdan at 414-645-6238 prior to performing the manhole reconstruction to arrange for inspection by the Village of West Milwaukee.

**Village of West Milwaukee – Water** has underground water facilities within the project limits. These facilities will remain in place without adjustment except as noted below.

During construction adjust water valve boxes as shown in the plans and bid items at the following locations:

- Station 48NL+46, 32' RT
- Station 50NL+77, 32' RT
- Station 51NL+15, 43' RT
- Station 54NL+70, 60' RT

Contact Jason Jourdan at 414-645-6238 prior to performing the water valve box adjustments to arrange for inspection by the Village of West Milwaukee.

**We Energies – Electric** has existing underground and overhead electric facilities within the project limits.

Prior to construction, We Energies plans to perform maintenance and repair to the following existing manhole structures in eastbound W. National Avenue:

- MH 4077 at Station 44NL+65, 25' RT
- MH 4079 at Station 51NL+10, 22' RT
- MH 87-8008 at Station 54NL+50, 39' RT
- MH 4081 at Station 58NL+20, 19' RT

**We Energies – Gas** has existing underground gas facilities within the project limits. We Energies will adjust gas valve boxes to proposed final grade within construction limits during construction at the following locations:

- Station 45NL+04, 34' LT
- Station 48+40, 28' RT
- Station 51NL+18, 37' LT

Contact 1-800-261-5325 for gas emergencies, to identify if gas facilities are live, and for gas valve box adjustments. Each adjustment is estimated to require approximately 1 working day.

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

**AT&T Wisconsin**

**City of West Allis – Sewer**

**City of West Allis – Water**

**Everstream**

**Level 3 Communications LLC**

**Spectrum**

**Verizon Business**

## **8. Other Contracts.**

Coordinate work according to standard spec 105.5.

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with the adjacent work by others.

The following projects may be under construction concurrently with the work under this contract.

Coordinate activities, detours, work zone traffic control, roadway and lane closures, and other work items as required with other contracts.

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with the adjacent work by others.

### **Project 1060-27-74**

IH 94 East West

Early East Leg

WisDOT contact: Chris Zacharias; (414) 548-6716

### **Project 1060-27-71**

IH 94 East West

West Leg

WisDOT contact: Evan Limberatos; (414) 548-8797

## **9. Work By Others**

Modifications to the traffic control plan may be required by the engineer to be safe and consistent with adjacent work by others.

It is expected that routine maintenance by city and county personnel may be required at certain times that is concurrent with the work being done under this contract.

Notify the department's Electrical Field Unit at (414) 266-1170 to remove the two (2) ramp gate solar panel poles, cabinets, and solar panels at STH 59 & Miller Park Way five (5) working days prior to removing the concrete bases. The department will remove and dispose of the poles, cabinets, and solar panels. The contractor will disconnect the conduit to the ramp gate base and remove the solar panel pole as specified in the plans. All ramp gates will remain in place.

Notify the Village of West Milwaukee representative Chris Phillips, AdvaTech Systems, at (414) 939-5079x1001 to remove the surveillance camera and cabinet mounted to the existing signal pole in the South median nose at National Ave/Miller Park Way five (5) working days prior to removing the signal pole.

## **10. Railroad Insurance and Coordination - Soo Line Railroad Company (CP)**

### **A. Description**

Comply with standard spec 107.17 for all work affecting Soo Line Railroad Company (CP) property and any existing tracks.

#### **A.1 Railroad Insurance Requirements**

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3 Insurance is filed in the name of Soo Line Railroad Company d/b/a Canadian Pacific.

Notify evidence of the required coverage, and duration to Brian Osborne, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 760-2945; E-mail: [Brian.Osborne@cpkcr.com](mailto:Brian.Osborne@cpkcr.com)

Also send a copy to the following: Jason Kazmierski, SE Region Railroad Coordinator, 141 N. Barstow Street, Waukesha, WI 53188; Telephone (262)548-6700; E-mail [jason.kazmierski@dot.wi.gov](mailto:jason.kazmierski@dot.wi.gov)

Include the following information on the insurance document:

- Project ID: 2410-47-70
- Project Location: West Milwaukee, Wisconsin
- Route Name: STH 59 National Ave, Milwaukee County
- Crossing ID: 177225V
- Railroad Subdivision: Menomonee Belt Sub
- Railroad Milepost: MP 6.0
- Work Performed on or within 50' of RR ROW: Pavement markings and traffic control.

## **A.2 Train Operation**

Approximately 2 switching trains operate daily at up to 10 mph daily at up to 10 mph.

## **A.3 Names and Addresses of Railroad Representatives for Consultation and Coordination**

### **Construction Contact**

Brian Osborne, Manager Public Works; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 760-2945; E-mail [brian\\_osborne@cpkcr.com](mailto:brian_osborne@cpkcr.com) for consultation on railroad requirements during construction.

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

### **Flagging Contact**

Greda Lynn, Grade Crossing Coordinator; Canadian Pacific Plaza, 120 South 6th Street, Suite 700, Minneapolis, MN 55402; Telephone (612) 258-6619; E-mail [greda\\_lynn@cpkcr.com](mailto:greda_lynn@cpkcr.com) a minimum of 40 working days in advance to arrange for a railroad flagger. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

\* Contact SOO Line (CPKC) prior to letting for flagman work hour availability.

### **Cable Locate Contact**

In addition to contacting Diggers Hotline, contact CPKC Call Before You Dig line at (866) 291-0741, five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

SOO Line (CPKC) will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

## **A.4 Work by Railroad**

The railroad will perform the work described in this section, except for work described in other special provisions, and will be accomplished without cost to the contractor. None.

## **A.5 Temporary Grade Crossing**

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

stp-107-026 (20250108)

## **11. Information to Bidders, WPDES Transportation Construction General Permit (TCGP) for Storm Water Discharges.**

The calculated land disturbance for the project site is 1.13 acres.

The department has obtained permit coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities under this contract. Conform to all permit requirements for the project.

This permit is the Wisconsin Pollutant Discharge Elimination System, Transportation Construction General Permit, (WPDES Permit No. WI-S066796-2). The permit can be found at:

A "Certificate of Permit Coverage" is available from the regional office by contacting Chris Zacharias, WisDOT at 262-548-6716. Post the "Certificate of Permit Coverage" in a conspicuous place at the construction site.

Permit coverage for additional land disturbing construction activities related to contractor means and methods will be considered as part of the ECIP review and approval process. Coverage under the TCGP for additional land disturbance areas will be considered if the areas meet all of the following:

- Must meet the permit's applicability criteria.
- Must be for the exclusive use of a WisDOT project.
- Land disturbance first commences after the ECIP approval, and the areas are fully restored to meet the final stabilization criteria of the permit upon completion of the work.

The contractor is responsible for obtaining any permits for areas that are not approved by the department for coverage under the TCGP.

stp-107-056 (20250108)

## 12. Erosion Control

*Add the following to standard spec 107.20 as paragraphs nine through fifteen:*

- (9) Erosion control best management practices (BMP's) the plans show are at suggested locations. The actual locations shall be determined by the contractor's ECIP and by the engineer. Include each dewatering (mechanical pumping) operation in the ECIP submittal. The ECIP shall supplement information the plans show and not reproduce it. The ECIP shall identify how to implement the project's erosion control plan. ECIP shall demonstrate timely and diligently staged operations, continuing all construction operations methodically from the initial removals and topsoil stripping operations through the subsequent grading, paving, and re-application of topsoil to minimize the exposure to possible erosion.
- (10) Provide the ECIP 14 days before the pre-construction conference. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison (Ryan Pappas, (920) 893-8529, [Ryan.pappas@Wisconsin.gov](mailto:Ryan.pappas@Wisconsin.gov)). Do not implement the ECIP until department approval, and perform all work conforming to the approved ECIP.
- (11) Maintain Erosion Control BMP's until permanent vegetation is established or until the engineer determines that the BMP is no longer required.
- (12) Stockpile excess materials or spoils on upland areas away from wetlands, floodplains, and waterways. Install perimeter silt fence protection around stockpiles within a timeframe acceptable to the engineer. If stockpiled materials will be left for more than 14 days, install temporary seed and mulch or other temporary erosion control measures the engineer orders.
- (13) Re-apply topsoil on graded areas, as designated by the engineer, within a timeframe acceptable to the engineer after grading is completed within those areas. Fertilize and sod top-soiled areas, as designated by the engineer, within 5 days after placement of topsoil. If graded areas are left not completed and exposed for more than 14 days, seed those areas with temporary seed and mulch.
- (14) Do not allow excavation for; structures, utilities, grading, maintaining drainage that requires dewatering (mechanical pumping) of water containing sediments (sand, silt, and clay particles) to leave the work site or discharge to a storm water conveyance system without sediment removal treatment. Before each dewatering operation, submit to the department a separate ECIP amendment describing in words and pictorial format an appropriate BMP for sediment removal, conforming to WisDNR Storm Water Construction Technical Standard, Code 1061, Dewatering. Include reasoning, location, and schedule duration proposed for each operation. Per Code 1061, include all selection criteria: site assessment, dewatering practice selection, calculations, plans, specifications, operations, maintenance, and location of proposed treated water discharge. Provide a stabilized discharge area. If directing discharge towards or into an inlet structure, provide additional inlet protection for back-up protection.
- (15) Dewatering is incidental.

sef-107-010 (20180104)

The project ECIP should detail how erosion control devices shown in the plan set will be implemented for the worksite. Additional devices may be needed on sequence of operations and field conditions. A

'staged' ECIP may be required for this project, as new areas are disturbed. Each new 'stage' of the ECIP needs to be submitted to the project staff and WDNR liaison for review as an amendment to the ECIP with a standard 14-day review period. Work should not commence in new areas until the project staff and WDNR has reviewed and concurred with the corresponding ECIP amendment.

All disturbed areas should be adequately protected and restored as soon as feasible. Any disturbed area that will not be 're-worked' for 14 days or more should be temporary seeded and mulched to prevent offsite erosion. The project team will identify 'sensitive' areas in the field that require additional temporary stabilization to protect resources from being contaminated by sediment laden water discharging from the work site. Any 'release' of sediment-laden water from the work site that enters a wetland or waterway should be reported to the WDNR liaison within 24 hours.

If dewatering is required for any reason, the water must be pumped into a properly selected and sized dewatering basin before the clean/filtered water is allowed to enter any waterway or wetland. The basin must remove suspended solids and contaminants to the maximum extent practicable. A properly designed and constructed dewatering basin must take into consideration maximum pumping volume (gpm or cfs) and the sedimentation rate for soils to be encountered. Do not house any dewatering technique in a wetland or floodplain.

The contractor should restrict the removal of vegetative cover and exposure of bare ground to the minimum amounts necessary to complete construction. Restoration of disturbed soils should take place as soon as conditions permit. If sufficient vegetative cover will not be achieved because of late season construction, the site must be properly winterized. A plan for 'over-wintering' the project or a specific project area should be compiled and submitted to the project staff and WDNR for review in an amendment to the ECIP.

All temporary stockpiles must be in an upland location and protected with erosion control measures (e.g. silt fence, rock filter-bag berm, etc.). Proposed stockpile locations should be included in the ECIP. Do not stockpile fill or other construction materials in or adjacent to wetlands, waterways or floodplain.

The DOT Select Site process must be adhered to for clean fill or any other material that leaves the work site. The project staff and the WDNR liaison will review all proposed select sites and a site visit may be required. Filling of wetlands, waterways or floodplain is not allowed under the select site process, unless the site owner has proof of required local/state/federal permits. No new impermeable surfaces can be left at a select site (including gravel roads or pads), unless the site owner attains required permits. Contaminated materials leaving the site need to adhere to the Hazardous Material Management Plan.

Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in the construction area in a manner that would allow them to enter a wetland or waterbody as a result of spillage, natural runoff, or flooding. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the State Duty Officer at 1-800-943-0003.

When performing concrete or asphalt sawcutting operations, the slurry shall be squeegeed off to the shoulder gravel or shoveled into the gravel behind curbs and not allowed into storm sewers, ditches, waterways, or wetlands.

Place topsoil in all graded areas as designated by the engineer immediately after grading has been completed. Fertilize, seed and mulch or fertilize and sod all areas within five calendar days after placement of topsoil.

Excavation material and cleared and grubbed material should be stockpiled on upland areas an adequate distance away from wetlands, storm sewer inlets, floodplains, and the waterways as determined by engineer.

### **13. Notice to Contractor – Media Relations.**

- a) The contractor shall not disseminate or publicize this Agreement, information relating to this Agreement, their work responsibilities, or generally comment about the entire project without prior written consent from one of the department's designated Project Communications Leaders listed under Section (d).
- b) The contractor shall refer all information requests or interview requests made by external parties, including media sources, to all of the department's designated Project Communications Leaders listed under Section (d).

- c) The contractor agrees to coordinate with the department as to the form, content and timing of any public announcement of this Agreement.
- d) The Project Communications Leaders for the department shall be:
  - i. The department's Project Manager
  - iii. Dan Sellers  
141 NW Barstow Street  
P.O. Box 798  
Waukesha, WI 53188  
Phone: (262) 548-5902  
Email: [Daniel.Sellers@dot.wi.gov](mailto:Daniel.Sellers@dot.wi.gov)
- e) Noncompliance with this contract provision may result in removal of contractor personnel from the project or suspension of work according to Wisconsin Department of Transportation standard spec 108.6 applicable under the contract.
- f) Notwithstanding anything to the contrary contained herein, no provision of this Agreement shall be interpreted to impede the contractor, or any individual, from reporting possible violations of state or federal law to any governmental agency or entity, or from making other disclosures under the whistleblower provisions of state or federal law. The contractor does not need the prior authorization of the department to make any such reports or disclosures and the contractor shall not be required to notify the department that such reports or disclosures have been made.

#### **14. Notice to Contractor – Safety.**

All workers shall wear OSHA and ANSI compliant safety head protection, safety glasses, safety-toe protective footwear, and an ANSI 107-2015 Type R, Class 2 safety vest and at all times while within the project footprint. Ensure workers wear a high visibility Class 3 top and pants ensemble that meets or exceeds ANSI/ISEA 107-2015 Type R during hours of darkness, including 1/2 hour before sunset through 1/2 hour after sunrise, and during times of low visibility while in the project footprint.

The contractor and respective subcontractors shall provide a copy of their current Company Safety Plans to the department at the preconstruction meeting. All workers shall comply with the Safety Plans of their employer. The department will not issue a notice to proceed until all safety plans have been submitted.

The department may request amendments to safety plans or follow up action reports for any safety incidents occurring on the project.

#### **15. Notice to Contractor – Damage Claims.**

*Supplement standard spec 107 with the following:*

Provide documentation for all damage claims received on the project. Provide written updates to the engineer upon request until damage claims are resolved.

Documentation shall include:

1. Written communication with property owner and/or owner's insurance.
2. Settlement amounts, if applicable.
3. Basis for rejection of damage claim, if applicable.

Contractor shall provide written documentation of conclusions for all claims, actions, or suits.

The department will retain payments due to the contractor in amounts the engineer deems sufficient until documentation is provided.

## **16. Notice to Contractor – Milwaukee County Transit System.**

The Milwaukee County Transit System (MCTS) operates the following bus routes within and/or directly adjacent to the construction limits: route 18 (National-Greenfield), route 54 (Burnham-Mitchell), and route 76 (76th Street).

### **Impacts to MCTS Routing**

Invite MCTS to all coordination meetings between the contractor, the department, local officials and business stakeholders to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Notify MCTS at least 10 business days prior to beginning project work to provide advance notice of potential service impacts.

### **Impacts to MCTS Signs and Posts**

Notify MCTS of work impacting MCTS signs and posts in advance 5 or more business days. MCTS signs include "Bus Stop" and turn disc signs. MCTS signs are mounted on MCTS posts; and on assets owned by others including streetlights, traffic regulators, crosswalk and street signposts. MCTS shall be responsible for MCTS sign and post removal and installation, with the contractor granting access to MCTS personnel to perform such work. Signs stating "No Parking Bus Stop" are under the ownership and responsibility of the roadway jurisdiction.

### **Impacts to Bus Shelters**

Contractor work may require bus shelter(s) to be temporarily removed. MCTS will be responsible for the removal and reinstallation of bus shelters, with the contractor granting access to MCTS personnel for the purposes of reinstallation before new pavement opens to vehicular traffic. Notify MCTS in advance 10 business days for each site-specific bus shelter location.

### **Non-detour Service Suspension at MCTS Bus Stops and Temporary Bus Stops**

Occasions may arise when work requires neither a detour nor the physical alteration of MCTS bus stop assets, but for passenger safety, those occasions involved require MCTS to temporarily suspend service at a bus stop location. Notify MCTS 5 business days in advance of the site-specific occasion, and MCTS will sign appropriately to instruct passengers to board at a temporary bus stop. Notify MCTS upon completion of work. MCTS will resume service to any suspended bus stop locations when it is safe to do so.

### **Temporary Bus Stops**

MCTS will designate temporary bus stop boarding locations using MCTS temporary signs. Temporary bus stops will be in existing right-of-way at ADA-accessible locations outside the project's construction zone. MCTS is not requesting this project to provide temporary boarding pads.

### **MCTS contacts:**

Dan Adams (primarily construction planning & design)

Milwaukee County Transit System

1942 N. 17th St.

(414) 937-3273

[dadams@mcts.org](mailto:dadams@mcts.org)

Armond Sensabaugh (primarily staging & detours)

Milwaukee County Transit System

1942 N. 17th St.

Milwaukee, WI 53205

Phone: (414) 343-1728

[asensabaugh@mcts.org](mailto:asensabaugh@mcts.org)

David Locher

Milwaukee County Transit System

1942 N. 17th St.

Milwaukee, WI 53205

Phone: (414) 343-1727

[dlocher@mcts.org](mailto:dlocher@mcts.org)



**17. Notice to Contractor – Storage Area Limitation.**

The Veteran Affairs property in the Northwest quadrant of STH 175/Brewers Boulevard and STH 59/National Avenue was identified as a sensitive property. Storage of equipment and materials within the WisDOT right-of-way must be between the safety fence and the roadway as shown in the plans. Any changes will require an approved site plan for any equipment staging and/or storage to be approved by the engineer.

**18. Notice to Contractor – Significant Tree.**

A significant tree (#209) was identified at Station 53+27 'NL', 70' LT. The contractor shall protect and not disturb the tree at this location.

**19. Traffic Meeting and Traffic Control Scheduling.**

Every Wednesday by 8:00AM, submit a detailed proposed 2-week look-ahead traffic closure schedule to the engineer. Type the detailed proposed 2-week look-ahead closure schedule into an excel spreadsheet provided by the engineer. Enter information such as closure dates, duration, work causing the closure and detours to be used. Also enter information such as ongoing long-term closures, emergency contacts and general 2-month look-ahead closure information into the excel spreadsheet.

Attend, in person, the 10:00am contractor/utility traffic coordination meeting every Wednesday at the project field office to discuss and answer questions on the proposed schedule. The prime contractor, traffic control subcontractor, and any other subcontractors that have work that requires shoulder, lane, ramp, or full closures on the 2-week schedule are required to attend the 10:00 AM meeting. Edit, delete and add closures to the detailed proposed 2-week look-ahead schedule, as directed by the engineer, so that proposed closures meet contract requirements.

Every Wednesday at 2:00 PM, there will be a stakeholder traffic meeting held at the project field office. The prime contractor is required to attend the weekly 2:00 PM traffic meeting. The meeting will bring local agencies, project stakeholders, owner managers, owner engineers, contractors, document control and construction engineering personnel together to discuss traffic staging, closures and general impacts. Upon obtaining feedback from the meeting attendees, edit, delete and add information to the detailed 2-week look-ahead closure schedule, as needed. Submit the revised 2-week look-ahead to the engineer.

For any mid-week changes, submit requests for additions or modifications in writing to the engineer for review and approval. Any cancellations also need to be communicated in writing including a reason for the cancellation. Any cancellations, additions, or modifications should be submitted by 4pm to allow for review, approval, and schedule updates. Any additions to the schedule need to adhere to the advance notice requirements.

**20. Available Documents.**

The department will make its information available to bidding contractors. The list of documents that are available for contractors' information includes:

- Design Study Report
- Environmental Document
- As-Built Drawings
- Preconstruction survey
- Traffic Management Plan

These documents are available from Chris Zacharias at 141 NW Barstow Street, Waukesha, WI 53187 (262) 548-6716.

Reproduction costs will be applied to all copies requested.

sef-102-005 (20170310)

## **21. Eliminated Work**

*Replace standard spec 104.2.2.5 with the following:*

### **104.2.2.5 Change Orders for Eliminated Work**

- (1) The department has the right to partially eliminate or completely eliminate work the engineer finds to be unnecessary for the project. If the department eliminates work, the engineer will send a Work Authorization Form (WAF) directing the contractor to eliminate the work. If the engineer partially eliminates or completely eliminates work, the engineer will issue a contract change order for a fair and equitable amount as specified in 109.5.
- (2) If the department executes an equalizing change order for the purpose of matching the authorized quantity to the amount of units measured and paid for any bid item, this shall not be considered eliminated work.

## **22. Contractor Notification.**

*Replace standard spec 104.2.2.2(2) with the following:*

- (2) If the contractor discovers the differing condition, provide a written notice, as specified in 104.3.2, of the specific differing condition before further disturbing the site and before further performing the affected work.

*Replace standard specs 104.3.2 with the following:*

### **104.3.2 Contractor Initial Written Notice**

- (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, promptly provide a written notice to the engineer. At a minimum, provide the following:
  1. A written description of the nature of the issue.
  2. The time and date of discovering the problem or issue.
  3. If appropriate, the location of the issue.
- (2) Provide the additional information specified in 104.3.3 as early as possible to assist the engineer in the timely resolution of an identified issue. The engineer will not require, in subsequent submissions, duplication of information already provided.

## **23. Municipality Acceptance of Sanitary Sewer and Water Main Construction.**

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

stp-105-001 (20140630)

## **24. Referenced Construction Specifications.**

Conform to the work enumerated below conforming to the Standard Specifications for Sewer and Water Construction in Wisconsin (Sixth Edition with addendum). If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

Conform to the referenced construction specifications for the following:

- Water Main Protection
- Adjusting Water Valve Boxes
- Adjusting Water Manholes
- Reconstructing Manholes
- Internal Sanitary Manhole Seal

stp-105-002 (20130615)

## **25. Contractor Document Submittals.**

This special provision describes minimum requirements for submitting project documents to the department. This special provision does not apply to shop drawing submittals.

Provide one electronic copy of all documents requiring department review, acceptance, or approval. Attach a completed engineer-provided transmittal sheet to each email submittal. The department will reject submittals with incomplete transmittal sheets and require re-submittal.

The department will return one reviewed or accepted original to the contractor. Additional return originals can be requested. Submit an additional original for each additional return original requested.

Submit electronic copies in PDF format via email to accounts the engineer determines. If possible, create PDFs from original documents in their native format (e.g. Word, Excel, AutoCAD, etc.). Scan other documents to PDF format with a minimum resolution of 600 dpi.

All costs for contractor document submittals are incidental to the contract.

sef-105-010 (20150619)

## **26. Dust Control Implementation Plan.**

### **A Description**

This special provision describes developing, updating, and implementing a detailed Dust Control Implementation Plan (DCIP) for all land-disturbing construction activities and associated impacts both within the project site boundaries and outside the project site boundaries. Incorporate contract bid items that this article specifies into the DCIP.

### **B (Vacant)**

### **C Construction**

#### **C.1 General**

Control dust on the project as specified in standard spec 107.18. Minimize dust emissions resulting from land disturbing activities. Do not generate excessive air borne particulate matter (PM) or nuisance dust conditions. Control dust at all times during the contract.

Submit a DCIP to the engineer for review at least 14 calendar days before the preconstruction conference. Coordinate with the department, if requested, to resolve DCIP related issues before the preconstruction conference. The department will either approve the DCIP or request revisions. Do not initiate land-disturbing activities without the department's approval of the DCIP.

#### **C.2 DCIP Contents**

Develop a DCIP tailored to the specific needs of the project. Consider potential impacts to businesses and residences adjacent to the job site. Describe in detail all land disturbing, dust generating activities. Identify strategies to prevent, mitigate, and collect excess dust. Establish clear lines of communication with the engineer to ensure that all dust control issues can be dealt with promptly.

Include all of the following:

1. A single contact person with overall responsibility for the DCIP development as well as surveillance and remediation of job related dust. Provide:
  - Name, firm, address, and working-hours phone number.
  - Non-working-hours phone number.
  - Email address.
2. A site map locating project features, the job site boundaries, all ingress and egress points, air intakes and other dust-sensitive areas, and all public and private paved surfaces within and adjacent to the job site. Show where specific land disturbing, dust generating activities will occur and, to the extent possible, where employing various dust control or prevention strategies.
3. A matrix, or plan, for each anticipated land disturbing, dust generating activity, showing the following:
  - Preventive measures that shall be employed.
  - The applicable contact person.
  - The contractor's timetable and surveillance measures used to determine when remediation is required.

- The specific dust control and remediation measures that shall be employed. Identify the specific contract bid items that shall be used for payment. Indicate costs and practices that are incidental to the contract.
  - Both maintenance and cleanup schedules and procedures.
  - Excess and waste materials disposal strategy.
4. A description of monitoring and resolving off-site impacts.

### **C.3 Updating the DCIP**

Update the DCIP during the contract or as the engineer directs. Obtain the engineer's approval for all DCIP alterations. Also obtain the engineer's approval for routine DCIP adjustments for weather, job conditions, or emergencies that will have an impact on payment under the bid items listed in the approved DCIP.

### **C.4 Dust Control Deficiencies**

Coordinate with engineer to determine deadlines for resolving dust control deficiencies. Deficiencies include actions or lack of actions resulting in excessive dust, non-compliance with the contractor's DCIP or associated special provisions, and not properly maintaining equipment.

### **D Measurement**

The department will measure the various bid items associated with dust control as specified in the applicable measurement subsections of either the standard specs or other contract special provisions. The department will not measure work performed under a DCIP alteration unless the engineer specifically approves that alteration.

Measurement under the DCIP includes the contract bid items listed in this special provision:

624.0100 Water  
SPV.0075.0001 Pavement Cleanup Project 2410-47-70

The department will measure work completed under other existing contract bid items if approved as a part of the DCIP. The department will consider new bid items to the contract if proposed under the DCIP. The department will not measure work required under the DCIP that is not included in contract bid items.

### **E Payment**

All costs associated with the development and updating of the DCIP are incidental to the contract. The department will pay separately for the work required to implement the actions approved in the DCIP under the contract bid items approved as a part of the DCIP. All other costs associated with work approved under the DCIP are incidental to the contract.

sef-107-005 (20170323)

## **27. Material Stockpile and Equipment Storage**

Submit a map showing all proposed material stockpile and equipment storage locations to the engineer 14 calendar days before either the preconstruction conference or proposed use, whichever comes first. Identify the purpose; length, width & height; and duration of material stockpile or equipment storage at each location. Do not stockpile material or store equipment until the engineer approves.

SER-107-011 (20220412)

## **28. Hauling Restrictions.**

*Replace standard spec 107.2 with the following:*

Present to the department, five business days before proposed hauling, a proposed haul route plan detailing additional haul routes if additional haul routes are needed that are not part of the state trunk highway system. Include the months, days of the week, time of day, number of trucks, types of trucks and maximum loads of trucks anticipated to accomplish the project work in the additional haul route submittal.

The department will review the submittal and either approve or provide a letter with comments and proposed revisions to the contractor within five business days of its receipt. If approved, the department will subsequently survey the existing condition of that haul route to establish a baseline for assessing damage that the contractor's hauling operations might cause.

At all times, conduct operations in a manner that will cause a minimum of disruption to traffic on existing roadways.

sef-107-015 (20170310)

## **29. Maintaining Drainage.**

Maintain drainage at and through worksite during construction. 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 project.

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

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

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

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

sef-107-016 (20170310)

## **30. Subletting the Contract.**

*Replace standard spec 108.1.1 (3) with the following:*

If proposing to have a party other than a subcontractor perform work, notify the engineer and submit details of this arrangement in writing. The engineer will determine if that arrangement constitutes subcontracting. Submit copies of all other agreements between any parties regarding the performance of work under the contract with the Request to Sublet.

sef-108-035 (20171004)

## **31. Project Site Air Quality.**

Because fine particulate matter levels for Milwaukee, Racine and Kenosha Counties are typically close to PM<sub>2.5</sub> limits and the project is in a non-attainment area for the federal 8-hour ozone standard, contributions from construction activities can have a major impact well beyond the project limits. Take practical measures to mitigate the impact of operating construction equipment on the air quality in and around the project site.

Voluntarily establishing the staging zones for trucks waiting to load and unload is encouraged by the department. Locate staging zones where idling of diesel powered equipment will have minimal impact on abutting properties and the general public. Have truckers queue up in these zones whenever it is practical. The department further encourages drivers to shut down diesel trucks as soon as it appears likely that they will be queued up for more than ten minutes. Notify employees and sub-contractors about fueling and engine idling.

sef-999-039 (20160929)

**32. Public Involvement Meetings.**

Participate in department-sponsored public involvement meetings as the engineer requests. Ensure that representatives of subcontractors also participate in those meetings if the engineer requests. Participation in public involvement meetings is considered incidental and no separate payment will be made of participating in public involvement meetings.

**33. Pavement Breaking Equipment.**

Use only hydraulic pavement breaking equipment for breaking pavement within 300 feet of any structure. Do not use guillotine, drop hammer, falling weight, gravity impact breakers or equivalent equipment. A multi-head hydraulic drop hammer is allowed unless a structure is within 50 feet of the roadway.

**34. Coordination with Businesses and Residents.**

The department will arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week before the start of work under this contract and hold a meeting one week prior to each traffic staging change. The contractor shall arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least 2 weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

**35. Removing Village Banners, Item 204.9060.S.0001.**

**A Description**

This special provision describes removing Removing Village Banners conforming to standard spec 204.

**B (Vacant)**

**C (Vacant)**

Remove the existing Village banners and mounting hardware from their poles and coordinate pick-up of the banners and mounting brackets. Do not damage banners or mounting brackets during removal.

Notify the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 at least five working days prior to the removal of the banners to coordinate pick-up.

**D Measurement**

The department will measure Removing Village Banners in Each banner removed, acceptably completed.

**E Payment**

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.0001	Removing Village Banners	EACH

stp-204-025 (20230113)

**36. Removing Distribution Center, Item 204.9060.S.1001.**

**A Description**

This special provision describes removing an existing Village of West Milwaukee lighting distribution center, concrete base and electrical service as shown on the plans, in accordance to the pertinent provisions of standard spec 204, and as hereinafter provided.

**B (Vacant)**

### **C Construction**

Remove the lighting distribution center and the electrical service pedestal and dispose off the project site.

Coordinate with the utility for disconnection of services. Notify WE Energies eight weeks in advance of service turn-on dates for coordination. The Village will pay any fees charged by the utility.

### **D Measurement**

The department will measure Removing Distribution Center by the individual unit, acceptably completed.

### **E Payment**

Add the following to standard spec 204.5:

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.1001	Removing Distribution Center	EACH

Payment is full compensation for removing and disposing distribution center, concrete foundation, attached conduits, attached junction boxes, and hardware.

stp-204-025 (20230113)

## **37. Removing Lighting Units, Item 204.9060.S.1002.**

### **A Description**

This special provision describes removing existing lighting units according to the pertinent provisions of standard spec 204 and as hereinafter provided.

### **B (Vacant)**

### **C Construction**

Removing Lighting Units bid item includes the removal of light fixture, luminaire, mast arm, transformer base, and light pole. Abandon conduit and conductors located underground. Properly dispose of all concrete pole bases, conduits and conductors being removed as shown on the plans. Salvage all light poles, light fixtures, mast arms, and transformer bases.

Coordinate the pick-up of materials, except for luminaire lamp, switch, and ballasts by the Village of West Milwaukee Department of Public Works. Contact the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 at least five working days prior to removal of equipment to make arrangements for pick-up. Luminaire lamp, switch, and ballast disposal shall be paid for as a separate item.

### **D Measurement**

The department will measure Removing Lighting Units as each individual unit, acceptably completed.

### **E Payment**

Add the following to standard spec 204.5:

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.1002	Removing Lighting Units	EACH

Payment is full compensation for removing and disassembling lighting units, scrapping of some materials, storing salvaged items on site, disposing of scrap material, and for coordinating pick-up of the indicated materials to the Village of West Milwaukee Department of Public Works.

stp-204-025 (20230113)

- 38. Removing Traffic Signals STH 59 (W. Greenfield Ave) & S. 70<sup>th</sup> St, Item 204.9060.S.3010; Removing Traffic Signals STH 59 (W. Greenfield Ave) & STH 59 (W. National Ave), Item 204.9060.S.3020; Removing Traffic Signals STH 59 (W. National Ave) & S. 48<sup>th</sup> St, Item 204.9060.S.3030; Removing Traffic Signals STH 59 (W. National Ave) & S. 47<sup>th</sup> St, Item 204.9060.S.3040; Removing Traffic Signals STH 59 & Miller Park Way, Item 204.9060.S.3050.**

**A Description**

This special provision describes removing existing traffic signals at the intersection of STH 59 (W. Greenfield Ave) & S. 70th St, STH 59 (W. Greenfield Ave) & STH 59 (W. National Ave), STH 59 (W. National Ave) & S. 48th St, STH 59 (W. National Ave) & S. 47th St, and STH 59 (W. National Ave) & STH 175 (Brewers Blvd) & Miller Park Way in accordance to the pertinent provisions of section 204 of the standard specifications 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 Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 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.

Notify the City of West Allis Department of Public Works at (414) 302-8808 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 Village and City 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 Village or City.

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 public right of way.

Coordinate the pick-up of materials, except for traffic signal LED and luminaire lamp, switch, and ballasts by the Village of West Milwaukee Department of Public Works. Contact the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 at least five working days prior to removal of equipment to make arrangements for pick-up. Traffic signal LED and luminaire lamp, switch, and ballast disposal shall be paid for as a separate item.

Coordinate the pick-up of materials, except for traffic signal LED and luminaire lamp, switch, and ballasts by the City of West Allis Department of Public Works. Contact the City of West Allis Department of Public Works at (414) 302-8808 at least five working days prior to removal of equipment to make arrangements for pick-up. Traffic signal LED and luminaire lamp, switch, and ballast disposal shall be paid for as a separate item.

The contractor shall remove the signal cabinet from the footing. The signal cabinet and associated signal cabinet equipment will be removed by the contractor and picked-up by the Village of West Milwaukee Department of Public Works at 4517 W Burnham St, West Milwaukee, WI 53219 and will remain the property of the Village.

**D Measurement**

The department will measure Removing Traffic Signals as each individual unit, acceptably completed.



## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.3010	Removing Traffic Signals STH 59 (W. Greenfield Ave) & S. 70th St	EACH
204.9060.S.3020	Removing Traffic Signals STH 59 (W. Greenfield Ave) & STH 59 (W. National Ave)	EACH
204.9060.S.3030	Removing Traffic Signals STH 59 (W. National Ave) & S. 48th St	EACH
204.9060.S.3040	Removing Traffic Signals STH 59 (W. National Ave) & S. 47th St	EACH
204.9060.S.3050	Removing Traffic Signals STH 59 & Miller Park Way	EACH

Payment is full compensation for removing, disassembling traffic signals, scrapping of some materials, disposing of scrap material, for arranging pick-up of materials, and incidentals necessary to complete the contract work.

stp-204-025 (20230113)

- 39. Removing Loop Detector Wire and Lead-In Cable STH 59 & S. 48<sup>th</sup> St, Item 204.9060.S.3031;**  
**Removing Loop Detector Wire and Lead-In Cable STH 59 & S. 47<sup>th</sup> St, Item 204.9060.S.3041;**  
**Removing Loop Detector Wire and Lead-In Cable STH 59 & Miller Park Way, Item 204.9060.S.3051.**

### A Description

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

### B (Vacant)

### C Construction

Notify the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 at least five working days prior to the removal of the loop detector wire and lead-in cable.

Notify the City of West Allis Department of Public Works at (414) 302-8808 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 Removing Loop Detector and Lead-In Cable STH 59 (W. Greenfield Ave) & STH 59 (W. National Ave) & 62nd St; Removing Loop Detector and Lead-In Cable STH 59 (W. National Ave) & S. 48th St; Removing Loop Detector and Lead-In Cable STH 59 (W. National Ave) & STH 175 (Brewers Blvd) & Miller Park Way as each intersection acceptably completed.

## E Payment

*Add the following to standard spec 204.5:*

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.3031	Removing Loop Detector Wire and Lead-In Cable STH 59 & S. 48th St	EACH
204.9060.S.3041	Removing Loop Detector Wire and Lead-In Cable STH 59 & S. 47th St	EACH
204.9060.S.3051	Removing Loop Detector Wire and Lead-In Cable STH 59 & Miller Park Way	EACH

stp-204-025 (20230113)

- 40. Cold Patch, Item 495.1000.S.**

### A Description

This special provision describes furnishing cold patch and filling potholes and other voids in existing pavement surfaces as the engineer directs.

## B Materials

Furnish a mixture of course aggregate, natural sand, and MC-250 bituminous material designed to have a workability range of 15-100° F without heating. Ensure that the mixture:

- Adheres to wet surfaces.
- Resists damage from water, salt, and deicing products.
- Requires no mixing or special handling before use.
- Supports traffic immediately after placement and compaction.

Conform to the following gradation:

SIEVE SIZE	PERCENT PASSING (by weight)
1/2-inch (12.5 mm)	100
3/8-inch (9.5 mm)	90 - 100
No. 4 (4.75 mm)	90 max
No. 8 (2.38 mm)	20 - 65
No. 200 (0.074 mm)	2 - 10
Bitumen	4.8 - 5.4

The department will accept cold patch based primarily on the engineer's visual inspection. The department may also test for gradation.

## C Construction

Stockpile cold patch on site on a smooth, firm, well-drained area cleared of vegetation and foreign material. Cover the stockpile and ensure that it is easily accessible. Replenish the stockpile throughout the project duration but limit the size at any given time to 10 tons on site unless the engineer approves otherwise. Dispose of unused material at project completion unless the engineer directs otherwise.

Place cold patch by hand. Remove ponded water and loose debris before placement. Compact flush with a tamper, roller, or vehicle tire after placement.

Refill patched areas as necessary to maintain a flush pavement surface until project completion.

## D Measurement

The department will measure Cold Patch by the ton, acceptably stockpiled on site.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
495.1000.S	Cold Patch	TON

Payment for Cold Patch is full compensation for providing and maintaining patches; for furnishing and replenishing stockpiled material on-site; and for disposing of excess material at project completion.

stp-495-010 (20160607)

## 41. Fence Safety, Item 616.0700.S.

### A Description

This special provision describes providing plastic fence at locations the plans show.

### B Materials

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

Furnish fence fabric meeting the following requirements.

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

### C Construction

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

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

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

### D Measurement

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

### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

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

stp-616-030 (20160607)

## 42. Topsoil.

Replace 625.2 (1) with the following:

- (1) Topsoil consists of loam, sandy loam, silt loam, silty clay loam, or clay loam humus-bearing soils adapted to sustain plant life, and ensure the topsoil consists of the following:

Topsoil Requirements	Minimum Range	Maximum Range
pH	6.0	8.0
Organic Matter*	5%	20%
Clay	5%	30%
Silt	10%	70%
Sand	10%	70%

\*Organic matter determined by loss on ignition test of samples oven dried to constant weight at 212 F (100 C).

Add the following to standard spec 625.2:

- (3) Furnish material that is free from large roots, sticks, weeds, brush, stones, litter, and waste products.
- (4) Do not furnish surface soils from ditch bottoms, drained ponds, and eroded areas, or soils which are supporting growth of NR 40 listed plants and noxious weeds or other undesirable vegetation.

Replace 625.3.3 (3) with the following:

- (3) Ensure that for the upper 2 inches, 100 percent of the material passes a one-inch sieve and at least 90 percent passes the No. 10 sieve.

SER-625-001 (20221007)

#### **43. Fertilizer Type B**

*Replace 629.2.1.3 with the following:*

- (1) Fertilizer Type B Special will conform to the following requirements:

Nitrogen, not less than 24% with 6% percent of the nitrogen being slow release.

Phosphorus, not less than 15%

Potash, not less than 9%

- (2) The total nitrogen, phosphorus, and potash shall equal at least 48 percent.

*Replace 629.3.1.3 with the following:*

- (1) Apply fertilizer containing at least 48 percent total nitrogen, phosphorus, and potash at 5 pounds per 1,000 square feet unless otherwise directed by the engineer. For Fertilizer Type B Special that contains a different percentage of components, determine the new application rate by multiplying the specified rate by a dimensionless conversion factor determined as follows:

$$\text{Conversion Factor} = 48 / \text{New Percentage of Components}$$

*Replace 629.4(1):*

- (1) The department will measure Fertilizer Type B, Special by the hundred pounds (CWT) acceptably completed, measured based on the application rate of 5 pounds per 1,000 square feet. The department will not measure fertilizer used for the bid items under 632. The measured quantity equals the number of hundred-weight (CWT) of material determined by multiplying the actual number of cwt. of material incorporated by the ratio of the actual percentage of fertilizer components used to 48 percent for Fertilizer Type B Special.

SER-629-001 (20230109)

#### **44. Signs Type II.**

*Furnish and install signs according to the plans and standard spec 637, except as follows:*

The contractor shall provide all necessary sign mounting hardware as shown in the detail drawings which includes but is not limited to 5/16" x 1 1/4" Stainless Steel Fender Washers, 5/16"-18 x 3/4" Stainless Steel Hex Head Bolt, 201 Stainless Steel Banding 3/4" x 0.20, Stainless Steel Flared Leg Sign Mount Bracket for 3/4" banding, 201 Stainless Steel Wing Seal (buckle) for 3/4" banding and one- or two-sided sign mounting Z-brackets that fit 2 3/8 inch post or approved equal.

The contractor shall affix the installation date sticker on back of sign in lower right corner. Stickers will be provided at pre-construction meeting or by the Inspector.

The contractor shall be responsible for recording the location, type, and installation date of the signage using the provided Sign Installation Log (L-101).

#### **45. Covering Signs.**

*Replace standard spec 643.2.3.3(2) with the following:*

- (2) Ensure that covers are flat black, blank, and opaque.

*Add the following to standard spec 643.3.4.1 as paragraph four:*

- (4) If multiple messages on a single sign are required to be covered, minimize the number of holes created by covering the sign with a single rectangular shaped covering. Multiple coverings on a single sign is only permissible where necessary to avoid covering necessary content or as directed by the engineer. Submit

sign covering plans to the engineer for single signs requiring multiple coverings 3 days before performing work. Obtain engineer approval before covering signs. Remove sign coverings before placing fixed messages signs unless otherwise directed by the engineer.

sef-643-005 (20180104)

## **46. 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)

## **47. Connected Arrow Board, Item 643.0810.S.**

### **A Description**

This special provision describes providing, repositioning, operating, maintaining, monitoring, and removing connected arrow board(s) capable of reporting real-time work zone lane closure information to Wisconsin 511 and third-party vendors.

### **B Materials**

Furnish items from the department's approved products list.

### **C Construction**

#### **C.1 General**

Follow all requirements in Spec 643.3.

Place connected arrow board per plan or as the engineer directs.

Ensure the connected arrow board operates continuously when deployed on the project.

Ensure the connected arrow board and work zone location markers are from the same manufacturer.

Provide a local specialist to respond to emergency situations within 2 hours of being notified. Equip local specialist with sufficient resources to correct deficiencies in the connected work zone start and end location markers.

#### **C.2 Testing and Configuration**

Prior to deployment, test the connected arrow board with the engineer to ensure the device is showing in the WZDx Device Feed. Send an email to [DOTBTOworkzone@dot.wi.gov](mailto:DOTBTOworkzone@dot.wi.gov) to notify BTO that the devices have been turned on.

#### **C.3 Programming**

Connected arrow board may be switched between the following pattern displays per the plan:

- Blank
- Right Arrow Static
- Right Arrow Flashing
- Right Arrow Sequential

- Left Arrow Static
- Left Arrow Flashing
- Left Arrow Sequential

When the connected arrow board is not displaying a pattern, the display shall be blank and the connected arrow board transmits its status to the data feed. When a connected arrow board is switched to a pattern, the connected arrow board transmits its location and its current operating mode to the data feed.

The connected arrow board and the remote management software shall provide a public GeoJSON/API feed, updated at least every minute, compliant with FHWA's Work Zone Data Exchange (WZDx) v4.2 (<https://www.transportation.gov/av/data/wzdx>) Device Feed specification.

### **C.3 Reporting**

If requested by the engineer, provide real-time status change alerts to a list of designated personnel via text and/or email. Send an alert each time a connected arrow board is switched between operating modes (e.g., each time a connected arrow board is switched between blank, flashing left arrow mode and flashing right arrow mode). Include the current operating mode, the previous operating mode, the date and time of the mode switch, and the location (latitude and longitude) of the device at the time of the mode switch in the alert.

### **D Measurement**

The department will measure the connected arrow board by the day, acceptably completed, measured per roadway.

The department will not measure the connected arrow board on days it is not required.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
643.0810.S	Connected Arrow Board	DAY

Payment is full compensation for providing, repositioning, operating, maintaining, monitoring, testing, and removing the connected arrow board.

The department will deduct one day for each calendar day the connected work zone start and end location markers is required but out of service for more than 2 hours.

stp-643-012 (20250108)

## **48. Connected Work Zone Start and End Location Markers, Item 643.1220.S.**

### **A Description**

This special provision describes providing, repositioning, operating, maintaining, monitoring, and removing connected work zone start and end location markers capable of reporting real-time work zone location information to Wisconsin 511 and third-party vendors.

### **B Materials**

Furnish items from the department's approved products list.

### **C Construction**

#### **C.1 General**

Follow all requirements in Spec 643.3.

Place work zone start location marker at the beginning of the work zone per plan or as the engineer directs. Clearly label the work zone start location marker so that it is easily distinguishable by field personnel.

Place work zone end location marker at the end of the work zone per plan or as the engineer directs. Clearly label the work zone end location marker so that it is easily distinguishable by field personnel.

Ensure the connected work zone start and end location markers operate continuously when deployed on the project.

Ensure the work zone location markers and connected arrow board are from the same manufacturer.

Provide a local specialist to respond to emergency situations within 2 hours of being notified. Equip local specialist with sufficient resources to correct deficiencies in the connected work zone start and end location markers.

## **C.2 Testing and Configuration**

Prior to deployment, test the connected work zone start and end location markers with the engineer to ensure devices are showing in the WZDx Device Feed. Send an email to [DOTBTOworkzone@dot.wi.gov](mailto:DOTBTOworkzone@dot.wi.gov) to notify BTO that the devices have been turned on.

## **C.3 Programming**

When the work zone start location marker is switched to the ON mode, the begin location marker transmits to the data feed its location and identity as a work zone start location marker. The end location marker functions similarly.

The connected work zone start and end location markers and their remote management software shall provide a public GeoJSON/API feed, updated at least every minute, compliant with FHWA's Work Zone Data Exchange (WZDx) v4.2 (<https://www.transportation.gov/av/data/wzdx>) Device Feed specification.

Switch the work zone start and end location markers to OFF mode when temporary traffic control is removed, and the normal traveled way is restored.

## **C.4 Reporting**

If requested by the engineer, provide real-time status change alerts to a list of designated personnel via text and/or email. Send an alert each time the connected work zone start and end location markers are switched between operating modes (e.g., each time a work zone start/end location marker is switched between ON mode and OFF mode). Include the date and time of the mode switch, and the location (latitude and longitude) of the device at the time of the mode switch in the alert.

## **D Measurement**

The department will measure the connected work zone start and end location markers by the day, acceptably completed, measured per roadway.

The department will not measure the connected work zone start and end location markers on days they are not required.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
643.1220.S	Connected Work Zone Start and End Location Markers	DAY

Payment is full compensation for providing, repositioning, operating, maintaining, monitoring, testing, and removing the complete system consisting of connected work zone start and end location markers.

The department will deduct one day for each calendar day the connected work zone start and end location markers is required but out of service for more than two hours.

stp-643-122 (20250108)

## **49. Temporary Audible Message Devices, Item 644.1900.S.**

### **A Description**

This special provision describes providing, maintaining, and removing temporary audible message devices. These devices are used on temporary pedestrian facilities to guide individuals with sight disabilities.

### **B Materials**

Furnish temporary audible message devices from the approved products lists.

### **C Construction**

Provide and maintain temporary audible message device. Maintain and repair devices within two hours of being notified by the project engineer of an issue.



Contractors record messages as approved by the engineer.

Mount temporary audible message devices on drums, temporary sign supports, or other locations approved by the engineer. Locate motion detection areas that will be effective in activating the device to operate properly. Avoid locating motion detection areas that will cause activation by trees, traffic, or other known regular activity.

Move and adjust devices after disruptions by the work or the public.

Maintain devices in a working condition and replace batteries as needed. Replace any devices that are not working properly within 2 hours of being notified of an issue.

Use tamper-proof hardware for mounting.

#### **D Measurement**

The department will measure temporary audible message devices by the day, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
644.1900.S	Temporary Audible Message Device	DAY

Payment is full compensation for providing, maintaining, and removing temporary audible message device.

The department will not pay for devices that are inoperable.

stp-644-190 (20250108)

### **50. Temporary Pavement Marking**

*Add the following to standard spec 646.3:*

- (1) On pavements not scheduled for removal under this project, remove markings using air blasting, water blasting, or a combination of thereof. Do not use grinding on these pavements.

### **51. Traffic Signals, General.**

All work shall be in accordance to the plans and the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, 2025 Edition, and these special provisions.

Failure to comply with the state standards and specifications may result in the cost of the corrections to be made at the Contractors' expense. Any additional disruption of Village-owned facilities shall be repaired or relocated as needed at the Contractors' expense.

Notify the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 at least three weeks prior to the beginning of the traffic signal work.

Notify the City of West Allis Department of Public Works at (414) 302-8808 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.

### **52. General Requirements for Electrical Work.**

*Add the following to 651.3.3 (3) of the standard specifications:*

Notify the the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 to coordinate the inspection for Village owned traffic signals. The Village personnel will perform the inspection for the Village owned and maintained traffic signals.

Notify the City of West Allis Department of Public Works at (414) 302-8808 to coordinate the inspection for City owned traffic signals. The City personnel will perform the inspection for the City owned and maintained traffic signals.

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

**53. Electrical Conduit.**

*Replace 652.5(2) of the standard specifications with the following:*

(2) Payment for Conduit Rigid Metallic, Conduit Rigid Nonmetallic, Conduit Reinforced Thermosetting Resin, and Conduit Special bid items is full compensation for providing the conduit, conduit bodies, and fittings; for providing all conduit hangers, clips, attachments, and fittings used to support conduit on structures; for pull wires or ropes; for expansion fittings and caps; for making necessary connections into an existing pull box, manhole, junction box or communication vault; for excavating, bedding, and backfilling, including any sand, concrete, or other required materials; for disposing of surplus materials; and for making inspections.

**54. Electrical Service Meter Breaker Pedestal W. National Avenue, Item 656.0201.1000; Electrical Service Meter Breaker Pedestal STH 59 & S. 48<sup>th</sup> St, Item 656.0201.3030; Electrical Service Meter Breaker Pedestal STH 59 & S. 47<sup>th</sup> St, Item 656.0201.3040; Electrical Service Meter Breaker Pedestal STH 59 & Miller Park Way, Item 656.0201.3050.**

*Add the following to standard specification 656.2.3:*

The Village of West Milwaukee will be responsible for the electric service installation request for any Village 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 specification 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 specification 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.

**55. Signal Housings.**

*Replace 658.2(4) of the standard specifications with the following:*

(4) 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.

**56. Traffic Signal Faces & Pedestrian Signal Face 16-Inch.**

*Append 658.3(5) of the standard specifications with the following:*

(5) Connect all ungrounded conductors with wire nuts in the appropriate sections of the signal heads. 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.

**57. Signal Mounting Hardware, Item 658.5070.**

*Add the following to 658.2(7) of the standard specifications:*

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.

**58. Street Lighting Systems for the City of West Allis.**

Work under this contract may impact or modify street lighting systems owned and operated by the City of West Allis. Perform all work according to the plans, specifications and as hereinafter noted.

**Existing Street Lighting Circuits – Warning – Electrocution Hazard:**

The City of West Allis has multiple street lighting circuits along and crossing city streets within the project area. Some of the existing street lighting circuits are high voltage series type circuits. By proposing to do the work the electrical subcontractor acknowledges that they are professionally knowledgeable of the hazards inherent in high voltage series street lighting and that they will train their staff as to the appropriate safety procedures for working around high voltage series wiring and other portions of the system.

The City of West Allis Electrical Division staff contact for purposes of this project shall be Don Molleson at (414) 302-8873 or (414) 239-4751 cell. Carefully read and consistently abide by the following coordination requirements in order to safely work within areas of existing high voltage series street lighting circuits:

Schedule and attend an initial project meeting prior to any work taking place, electrical or otherwise. The City of West Allis will provide contact information for city staff, electrical system maps and other information as needed. One week notice in advance of this meeting is required.

- Coordinate with the city in advance of making any street lighting circuit connections. New conduit installed by bore shall be in place prior to disrupting any lighting circuits.
- Coordinate with the city in advance of removing any existing streetlights or pull boxes. The intent is to maintain the existing street lighting in operation as long as possible. Some minor temporary connections and modifications to the existing street lighting system may be made by the City of West Allis if it is determined necessary. Seventy-two (72) hour notice in advance of removing any existing streetlights or pull boxes is required.
- Coordinate with the city in advance of removing any existing curb and gutter or sidewalk as shown on the plans. The existing high voltage electrical wiring is buried at a relatively shallow depth directly behind the curb. The removal of the curb and gutter and sidewalk is likely to result in damage to the existing wiring and potentially exposure to high voltage wiring. The City of West Allis will de-energize any circuit which will be exposed by roadway removal work. Seventy-two (72) hours in advance of removing any existing curb and gutter or sidewalk is required. (Note that the City de-energizes the high voltage circuits during normal DPW working hours 7:30 a.m. to 3:00 p.m. Monday through Friday to reduce electrocution risk.) Contact DPW Electrical to verify if lines are active or abandoned.
- If the Contractor accidentally damages any high voltage electrical cable or conduit, promptly notify the City Electrical Division at (414) 302-8808 between the hours of 7:00 a.m. and 3:00 p.m. weekdays or, if the damage occurs at any other times, promptly notify the Police Department Man-On-Watch dispatch line at 414-302-8000. Report any exposed high voltage wire or conduit to ensure public safety is maintained when the photocell energizes the street lighting wire at dusk.

**Modifications to the Standard Specifications:**

*Append standard spec 651 with the following:*

The department will allow inspection of street light installations by the City of West Allis.

Notwithstanding any other provision, poles, arms, and concrete bases shall be dimensioned and furnished to fit each other and to work together as one complete system.

*Append standard spec 655.3.1(1) with the following:*

Wet location splices disallowed.

## **59. Street Lighting Systems for the Village of West Milwaukee.**

Work under this contract will include the removal, modification and installation of street lighting systems owned and operated by the Village of West Milwaukee. Perform all work according to the plans, specifications and as hereinafter noted.

### **Existing Street Lighting Circuits – Warning – Electrocution Hazard:**

The Village of West Milwaukee has multiple street lighting circuits along and crossing National Avenue within the project area. Much of the existing street lighting circuits are high voltage series type circuits. By proposing to do the work the electrical subcontractor acknowledges that they are professionally knowledgeable of the hazards inherent in series street lighting and that they will train their staff as to the appropriate safety procedures for working around series wiring and other portions of the system.

The Village of West Milwaukee Electrical staff contact for purposes of this project shall be Jason Jourdan at (414) 645-6238 or (414) 651-5890 cell. Carefully read and consistently abide by the following coordination requirements to safely work within areas of existing series street lighting circuits:

- Schedule and attend an initial project meeting prior to any work taking place, electrical or otherwise. The Village of West Milwaukee will provide contact information for city staff, electrical system maps and other information as needed. Two weeks' notice in advance of this meeting is required.
- Coordinate with the Village in advance of making any side street lighting circuit connections as shown on the plans. New conduit installed by bore shall be in place in stage one prior to disrupting any lighting circuits.
- Coordinate with the Village in advance of removing any existing streetlights or pull boxes as shown on the plans. The intent is to maintain a portion of the existing street lighting in operation to serve as temporary lighting. One-week notice in advance of removing any existing streetlights or pull boxes is required.
- Coordinate with the Village in advance of removing any existing curb and gutter or sidewalk as shown on the plans. The existing electrical wiring is buried at a relatively shallow depth just behind the curb in most locations along National Ave. The removal of the curb and gutter and sidewalk is likely to result in damage to the existing wiring and potentially exposure to high voltage wiring. The Village of West Milwaukee will de-energize any circuit which will be exposed by roadway removal work. One-week notice in advance of removing any existing curb and gutter or sidewalk is required.

### **Work Performed by Others:**

The Village of West Milwaukee will perform the following tasks in coordination with the proposed street lighting work on the project.

- Inspect all wiring terminations prior to energizing the system.

## **60. Lamp, Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.**

### **A Description**

This special provision describes the detachment and packaging of lamps, ballasts, LEDs, and mercury containing switches (e.g., overhead roadway lighting, underdeck bridge, wall packs, pedestrian signals, traffic control stop lights and warning flashers, fluorescent bulbs, and thermostats) removed under this contract for disposal as hazardous materials.

For Lamp, Ballast, LED, Switch Disposal by Contractor, coordinate removal from the work site by the department's hazardous waste disposal vendor. Disposal will be billed to the department by the hazardous waste disposal vendor.

### **B Materials**

#### **B.1 Disposal by Contractor**

Items removed under this contract will be considered the property of the department for waste generator identification. The contractor is responsible for coordinating with the department's hazardous waste vendor for disposal:

<https://wisconsin.gov/Documents/doing-business/eng-consultants/cnslt-rsrcs/environment/hazwaste-contacts.pdf>

## **C Construction**

### **C.1 Removal**

Arrange for the de-energizing of luminaires after receiving approval from the engineer that the existing luminaires can be removed. Do not remove luminaires that cannot be replaced with proposed LED units and operational within the same workday. The new LED units need to be operational prior to sunset of the same workday.

Detach and remove luminaires and lamps from the existing traffic signal poles or respective structure. Avoid breaking fixtures whenever possible.

Lamps, ballasts, LED, and switches will become property of the department, and will be disposed of in an environmentally sound manner.

### **C.2 Packaging of Hazardous Materials**

Provide a secure, level location removed from the travelled way for storage of the material for disposal.

Pack intact fixtures in the packaging of the new lamps used to replace them, or packaging affording the equivalent protection. Place in full, closed stackable cartons.

Pile cartons no more than four high if palletized and secure cartons with shrink wrap to prevent shifting or falling of the loads. Clearly mark each pallet with the words "Universal Waste Lamps" or "Universal Waste Ballasts", the date, and the number of fixtures on each pallet.

Pack broken fixtures into (min.) 6 mil thick plastic bags and place inside sturdy cardboard boxes or the equivalent. Mark the outer packaging with the term "Broken Fixtures/Lamps", the date and the number of broken fixtures clearly marked on the box.

The hazardous waste vendor will not accept fixtures improperly packaged. The vendor will reject any fixtures not removed as part of a contract pay item or otherwise required under this contract.

Pack ballasts and mercury containing switches in appropriate containers.

### **C.3 Disposal by Contractor**

Complete the lamp and ballast inventory (<https://wisconsin.gov/Documents/doing-bus/eng-consultants/cnsit-rsrcs/environment/dotlampballastinventory.dotx>) and contact the hazardous waste vendor to coordinate pickup and disposal at a location specified by the contractor. Consolidate all pallets and boxes from one project at a single location. Contact the hazardous waste vendor to set up an appointment for pickup. The hazardous waste vendor requires a minimum of one week advance notice to schedule pickup.

## **D Measurement**

The department will measure Lamp, Ballast, LED, Switch Disposal by Contractor as each individual unit removed and received by the hazardous waste vendor, properly packaged and acceptably completed, matching the total number of units provided on the inventory form. The department will not measure broken fixtures that exceed a total of 10 percent of all fixtures to be disposed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH

Payment for Lamp, Ballast, LED, Switch Disposal by Contractor is full compensation for detachment, handling, packaging, labeling and scheduling disposal with the hazardous waste vendor; and scrapping and disposal of all other materials.

stp-659-500 (20220628)

**61. Temporary Traffic Signals for Intersections STH 59 & S. 47<sup>th</sup> St, Item 661.0201.3040; Temporary Traffic Signals for Intersections STH 59 & Miller Park Way, Item 661.0201.3050.**

*Replace 661.2.1(3) of the standard specifications with the following:*

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

Contact the local electrical utility at least four days prior to making the switch from the Temporary Traffic Signal to the new Permanent Traffic Signal.

*Append 661.2.1 of the standard specifications with the following:*

(6) Control equipment or controller equipment is defined as anything inside the control cabinet.

*Replace 661.3.1(2) of the standard specifications with the following:*

(2) Request a signal inspection of the completed temporary traffic signal installation to the engineer at least five working days prior to the time of the requested inspection. Notify the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 to coordinate the inspection. The Village will perform the inspection.

*Append 661.3.1.4 of the standard specifications with the following:*

(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 661.3.2.6(2) of the standard specifications with the following:*

(2) Upon acceptance of new signal and completion of work, the contractor will switch control of the intersection over to the permanent cabinet installation. Remove signal cable and wires, wood poles, wood posts, control cabinet, control equipment, and incidental materials. Upon deactivation of the controller, call the electrical utility immediately for the temporary electrical service disconnect.

*Replace 661.3.2.7 (2) of the standard specifications with the following:*

(2) Respond within one hour of notification to provide corrective action to any emergency such as but not limited to knockdowns, signal cable problems, and controller equipment failures. If equipment becomes damaged or faulty beyond repair, replace it within one working day. In order to fulfill this requirement, maintain, in stock, sufficient materials and equipment to provide repairs. Replace the traffic signal control equipment including the cabinet and cabinet accessories within 4 hours.

*Replace 661.5(2) of the standard specifications with the following:*

(2) Payment for the Temporary Traffic Signals for Intersections bid item is full compensation for providing, maintaining, and repairing the complete temporary installation; and for removal. Payment also includes the following:

1. Furnishing and installing replacement equipment.
2. Inputting traffic signal timings provided by the project engineer into the signal controller as requested.

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 cleaning up and properly disposing of waste; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

## 62. Intelligent Transportation Systems (ITS) – Control of Materials.

### Standard spec 106.2 – Supply Source and Quality

*Add the following to standard spec 106.2:*

The department will furnish a portion of equipment to be installed by the contractor. This department-furnished equipment includes the following:

Department-Furnished Items
6-Count Fiber Optic Cable
Cellular Modem
Field Cabinet

Pick-up small department-furnished equipment, such as communications devices, cameras, and controllers, from the department's Traffic Management Center (TMC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact the Statewide ITS Engineer, Dean Beekman at (414) 227-2154 to coordinate pick-up of equipment.

Pick up cabinets and solar power systems, including batteries, at the department's TMC equipment storage facility at 633 W. Wisconsin Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact Dean Beekman to coordinate pick-up of equipment.

Large department-furnished equipment, such as camera poles and dynamic message signs will be delivered by the supplier to a contractor-controlled site identified by the contractor. Delivery will not necessarily be in a "just in time" manner. Store the equipment until field installation.

Within two weeks of Notice to Proceed, contact the engineer and Dean Beekman. Provide the address and contact information for the contractor-controlled location for delivery and the desired delivery schedule for the large state-furnished materials.

Transportation of the equipment between the electric shop and the field or interim locations are the responsibility of the contractor.

### Standard spec 106.3 – Approval of Materials

*Add the following to standard spec 106.3:*

#### Design/Shop Drawings

Before the purchase and/or fabrication of any of the components listed herein, and for any non-catalog item shown on the Material and Equipment List specified above, and no more than 30 days after notice to proceed, submit five copies of design drawings and shop drawings, as required, to the department for review. The items and the drawings that represent them shall meet the requirements of the standard specifications.

Design drawing submissions shall consist of signed and certified designs, design drawings, calculations, and material specifications for required items.

Shop drawings will be required for, but not limited to the following:

1. Mounting assemblies for the vehicle speed and classification sensors, including their attachment to the structure.
2. Mounting LED warning signs to the sign structure.
3. Mounting detail for dynamic message signs.
4. Any contractor-designed structure or foundation.

The department will complete its review of the material within 30 days from the date of receipt of the submission, unless otherwise specified. The department will advise the contractor, in writing, as to the acceptability of the material submitted. The department may determine that if no exceptions were taken for the item, it is approved, and no further action is required by the contractor; or the item may be partially or totally rejected, in which case modify and/or amend the submittal as required by the department and resubmit the item within 14 days. At this time, the review and approval cycle described above will begin again.

stp-670-005 (20230629)

## **63. Intelligent Transportation Systems - General Requirements.**

### **A Description**

#### **A.1 General**

This special provision describes providing elements for an Intelligent Transportation System (ITS) in or along the existing roadway as the plans show.

Unusual aspects of this project include:

1. The project includes working on cables and equipment that are carrying data between roadside equipment and the department's Traffic Management Center (TMC). Interruption of this service is not expected to perform this work. If an interruption is determined necessary, it must be done on a weekend, and must be done in a way that minimizes communication outages for the existing equipment. Notify the department's TMC at least 48 hours in advance of the planned interruption.
2. The department will furnish some of the equipment to be installed. Make a reasonable effort to discover defects in that equipment before installing it.

#### **A.2 Surge Protection**

Equip every ungrounded conductor wire entering or leaving any equipment cabinet with a surge protector. For purposes of this section, multiple cabinets on a single pole or foundation are considered a single cabinet.

### **B Materials**

#### **B.1 General**

Only furnish equipment and component parts for this work that are new and have high quality workmanship. All controls, indicators, and connectors shall be clearly and permanently labeled in a manner approved by the engineer. All equipment of each type shall be identical.

All electrical equipment shall conform to the standards and requirements of the Wisconsin Electrical Code, the National Electrical Manufacturers Association (NEMA), National Electric Safety Council (NESC), Underwriter's Laboratory Inc. (UL) or the Electronic Industries Association (EIA), when applicable. All materials and workmanship shall conform to the requirements of the National Electrical Code (NEC), Rural Electrification Administration (REA), Standards of the American Society for Testing and Materials (ASTM), American Association of State Highway and Transportation Officials (AASHTO), requirements of the plans these special provisions, the standard specifications, and to any other codes, standards, or ordinances that may apply. All system wiring, conduit, grounding hardware and circuit breakers shall be in conformance with the National Electrical Code. Whenever reference is made to any of the standards mentioned, the reference shall be considered to mean the code, ordinance, or standard that is in effect at the time of the bid advertisement.

#### **B.2 Outdoor Equipment**

All conductive connectors, pins (except pins connected by soldering), and socket contacts shall be gold plated. Acrylic conformal coating shall protect each circuit board side that has conductive traces. Except for integrated circuits containing custom firmware, all components shall be soldered to the printed circuit board.

To prevent galvanic corrosion, all connections between dissimilar metals shall incorporate a means of keeping moisture out of the connection. Where the connection need not conduct electricity, interpose a non-absorbing, inert material or washer between the dissimilar metals. Use nonconductive liners and washers to insulate fasteners from dissimilar metals. Where the connection must conduct electricity, use a conductive sealant between the dissimilar metals. Alternatively, use an insulating gasket and a bond wire connecting the two metal parts.

#### **B.3 Custom Equipment**

Equipment that is not part of the manufacturer's standard product line, or that is made or modified specifically for this project, shall conform to the following requirements:

Where practical, electronics shall be modular plug-in assemblies to facilitate maintenance. Such assemblies shall be keyed to prevent incorrect insertion of modules into sockets.

All components shall be available from multiple manufacturers as part of the manufacturers' standard product lines. All must be clearly labeled with the value, part number, tolerance, or other information sufficient to enable a technician to order an exact replacement part.



Lamps used for indicator purposes shall be light-emitting diodes.

The printed circuit boards shall be composed of "two-ounce" copper on 1/16 inch thick fiberglass epoxy or equivalent type construction. Holes that carry electrical connections from one side of the boards to the other shall be completely plated through. Multilayer printed circuit boards shall not be used. The name or reference number used for the board in the drawings and maintenance manuals supplied to the department shall be permanently affixed to each board.

All components shall be mounted so that the identifying markings are visible without moving or removing any part, if practical.

#### **B.4 Environmental Conditions**

Equipment shall continue to operate as specified under the following ranges of environmental conditions, except as noted in the specifications for individual pieces of equipment.

1. **Vibration and Shock:** Vehicle speed and classification sensors and any other equipment mounted atop poles or on structures shall not be impaired by the continuous vibration caused by winds (up to 90 mph with a 30 percent gust factor) and traffic.
2. **Duty Cycle:** Continuous
3. **Electromagnetic Radiation:** The equipment shall not be impaired by ambient electrical or magnetic fields, such as those caused by power lines, transformers, and motors. The equipment shall not radiate signals that adversely affect other equipment.
4. **Electrical Power:**
  - 4.1. **Operating power:** The equipment shall operate on 120-volts, 60-Hz, single-phase unless otherwise specified. It shall conform to its specified performance requirements when the input voltage varies from 89 to 135 volts and the frequency varies +3 Hz.
  - 4.2. **High frequency interference:** The equipment operation shall be unaffected by power supply voltage spikes of up to 150 volts in amplitude and 10 microseconds duration.
  - 4.3. **Line voltage transients:** The equipment operation shall be unaffected by voltage transients of plus or minus 20 percent of nominal line voltage for a maximum duration of 50 milliseconds. Equipment in the field shall meet the power service transient requirements of NEMA Standard TS-2 when connected to the surge protectors in the cabinets.
5. **Temperature and Humidity:**
  - 5.1. **Field equipment:** Equipment in the field shall meet the temperature and humidity requirements of NEMA Standard TS-2. Liquid crystal displays shall be undamaged by temperatures as high as 165 degrees F, and shall produce a usable display at temperatures up to 120 degrees F.
  - 5.2. **Equipment in Controlled Environments:** shall operate normally at any combination of temperatures between 50 degrees F and 100 degrees F, and humidity's between 5 percent and 90 percent, non-condensing, and with a temperature gradient of 9 degrees F per hour.

#### **B.5 Patch Cables and Wiring**

All cables and wiring between devices installed in a single cabinet, or in separate cabinets sharing a single concrete base, will be considered incidental to the installation of the devices and no separate payment will be made for them. It is anticipated that this will include fiber optic patch cables between termination panels and Ethernet switches, 10 / 100 MBPS Ethernet cables, RS-232 cables between individual devices and terminal servers, and power cables between individual devices and power sources within the cabinets.

#### **B.6 Surge Protection**

Low-voltage signal pairs, including twisted pair communication cable entering each cabinet shall be protected by two-stage, plug-in surge protectors and shall be installed on both ends of camera control cables. The protectors shall meet or exceed the following minimum requirements:

1. The protectors shall suppress a peak surge current of up to 10k amps.
2. The protectors shall have a response time less than one nanosecond.
3. The protector shall clamp the voltage between the two wires at a voltage that is no more than twice the peak signal voltage and clamp the voltage between each wire and ground at 50 volts.
4. The first stage of protection shall be a three-element gas discharge tube, and the second stage shall consist of silicon clamping devices.
5. The protector shall also contain a resettable fuse (PTC) to protect against excessive current.
6. There shall be no more than two pairs per protector.
7. It shall be possible to replace the protector without using tools.

Cables carrying power to curve signs shall be protected at the cabinet by grounded metal oxide varistors of appropriate voltages. The varistors must be at least 0.8 inch in diameter.

## **C Construction**

### **C.1 Thread Protection**

Provide rust, corrosion, and anti-seize protection at all thread assemblies of metallic parts by coating (non-spray) the mating surfaces with an approved compound. Failure to use an approved compound will result in no payment for the items to which coating was to have been applied.

### **C.2 Cable Installation**

When installing new cables into conduits containing existing cables, remove the existing cables and reinstall the existing cables simultaneously with the new cables. Take every precaution necessary to protect the existing cables. In the event of avoidable damage to the existing cables, replace all damaged cables, in-kind, at no additional expense to the department. When cables are pulled into conduit, use a cable pulling lubricant approved by the cable manufacturer. Submit documentation supporting manufacturer approval of the lubricant to the engineer.

### **C.3 Wiring**

Every conductor, except a conductor contained entirely within a single piece of equipment, must terminate either in a connector or on a terminal block. Provide and install the connectors and terminal blocks where needed, without separate payment. Use approved splice kits instead of connectors and terminal blocks for underground power cable splices.

Permanently label and key connectors to preclude improper connection. Obtain prior engineer approval for labeling methods before use.

Terminal blocks must be affixed to panels that permanently identify the block and what wire connects to each terminal. This may be accomplished by silk screening or by installing a laminated printed card under the terminal block, with the labels on portions of the card that extend beyond the block. Installation of terminal blocks by drilling holes in the exterior wall of the cabinet is not acceptable.

Use barriers to protect personnel from accidental contact with all dangerous voltages.

Do not install conductors carrying AC power in the same wiring harness as conductors carrying control or communication signals.

Arrange wiring, including fiber optic pigtails, so that any removable assembly can be removed without disturbing wiring that is not associated with the assembly being removed.

Communication and control cables may not be spliced underground, except where indicated on the plans.

Cables in the Traffic Management Center (TMC) or in communication hubs, which are not contained within a single cabinet, shall have at least 10 feet of slack.

### **C.4 System Operations**

If the contractor's operations unexpectedly interrupt Intelligent Transportation Systems (ITS) service, notify the engineer immediately and restore service within 24 hours. Repair all damaged facilities to the condition existing before the interruption. If service is not restored within 24 hours, the department may restore service to any operating device and deduct restoration costs from payments due the contractor.

### **C.5 Surge Protection**

Arrange the equipment and cabinet wiring to minimize the distance between each conductor's point of entry and its protector. Locate the protector as far as possible from electronic equipment. Ensure that all wiring between the surge protectors and the point of entry is free from sharp bends.

## **D Measurement**

The department will not measure the work performed under this special provision.

## **E Payment**

The department will pay for the work performed under this special provision under the contract ITS bid items.

stp-670-010 (20230629)

## **64. Roadway Embankment, Item SPV.0035.0001.**

### **A Description**

This special provision describes placing in embankments and in miscellaneous backfills, material obtained under the bid items in the roadway and drainage excavation or excavation for structure sections; or material obtained off site as specified under these special provisions.

### **B Materials**

#### **B.1 Embankment**

Furnish roadway embankment conforming with standard spec 207.2 except as follows:

*Add the following to standard spec 207.2(1):*

If the contractor utilizes offsite material to construct embankments, the material shall conform to standard spec 208 except as follows:

*Delete standard spec 208.2.2(2).*

### **C Construction**

Construct roadway embankment according to standard spec 207.3 except as follows:

*Add the following to standard spec 207.3.6:*

Prior to placing any material for a succeeding layer, ensure the previous layer does not have excessive rutting, displacement, or distortion under the compacting or hauling equipment. If rutting, displacement, or distortion is observed, the contractor shall inform the engineer how yielding material will be addressed prior to continuing roadway embankment construction.

If off site material is utilized, construction must conform to standard spec 208.3.

*Replace standard spec 205.3.2(4) with the following:*

If placing embankment on side slopes 10 feet high or higher and steeper than one vertical to 3 horizontal, provide vertically-faced, horizontal benches at least 2 feet wide into the existing embankment slope every 2-foot of vertical height.

If constructing embankment on only one side of abutments, wing walls, or piers, construct the embankment so that the area immediately adjacent to the structure is not compacted in a manner that causes overturning of or excessive pressure against the structure. If constructing embankment on both sides of a concrete wall, pipe, or box type structure, construct the embankment so that the elevation on both sides of the structure is always approximately the same.

### **D Measurement**

The department will measure Roadway Embankment without any correction for shrinkage or expansion factors by the cubic yard acceptably completed in its final location using the method of average end areas, except as follows:

- a) The engineer and contractor mutually agree to an alternative volume calculation method.
- b) If it is not possible to compute volumes of the various classes of roadway and drainage embankment by the method of average end areas due to erratic location of isolated deposits, the department may compute the volumes by three-dimensional measurements.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0035.0001	Roadway Embankment	CY

Payment is full compensation for furnishing offsite and onsite sources, for forming, compacting, shaping, sloping, trimming, finishing, and maintaining the embankments. If offsite materials are utilized for roadway embankments, payment includes full compensation for all items listed in standard spec 208.5 (2), for obtaining all required permits, and all other incidental work required under this section.

**65. Curb Ramp Grading, Shaping and Finishing, Item SPV.0060.0001.**

**A Description**

This special provision describes excavating, grading, filling, shaping, compacting, and finishing as necessary to construct each curb ramp location conforming to standard specs 205, 208, 211, 305, 625, 627, 629, and 630, as the plans show.

**B Materials**

Furnish materials as the plans show and engineer directs conforming the standard specs for the following:

Common excavation	205.2
Borrow	208.2
Base Aggregate Dense	305.2
Topsoil or Salvaged Topsoil	625.2
Mulching	627.2
Fertilizer	629.2
Seeding	630.2

**C Construction**

Construct the final subgrade and base for the curb ramp at the locations on the plans and as the engineer directs. Restore disturbed areas with topsoil or salvaged topsoil, fertilizer, seed, and mulch.

Dispose of all surplus and unsuitable material as specified in standard spec 205.3.12.

**D Measurement**

The department will measure Curb Ramp Grading, Shaping, and Finishing as each individual plan location acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0001	Curb Ramp Grading, Shaping, and Finishing	Each

Payment is full compensation for all excavating, grading, placing borrow, base aggregate, shaping, and compacting, and for providing and placing topsoil or salvaged topsoil, fertilizer, seed, and mulch at each curb ramp location.

Sidewalk removal, construction staking, curb ramp detectable warning field, and concrete sidewalk will be paid under respective contract bid items.

SER-602-001 (20170629)

**66. Utility Line Opening, Item SPV.0060.0002.**

**A Description**

This special provision describes excavating to uncover utilities/infrastructure for the purpose of determining location and elevation and potential conflicts with proposed work as directed by the engineer. The location of existing utilities and infrastructure needed to complete the contract work shall be addressed independent of this provision. This item does not remove the contractor's obligation to locate utilities as required by state and federal law.

**B (Vacant)**

**C Construction**

Comply with s.182.0175 (2), Stats., with respect to precautions to be taken to avoid and prevent damage to utility facilities.

All ULO shall be directed by the engineer in writing. Notify the engineer and infrastructure/utility owner or their agents 3 working days in advance so that they may be present when excavation work commences.

Provide documentation to the engineer including coordinates/elevations or referenced to alignment/offset. Document the size and/or diameter, composition, and a description of each

infrastructure/utility. Supply digital photographs of the uncovered infrastructure to the engineer in .jpeg format for future reference.

Backfill the excavation with suitable backfill, thoroughly compact, replace pavement over utility line opening trenches which are within the staged traffic area as directed by the engineer. Replace pavement and open to traffic within 24 hours of the excavation.

#### **D Measurement**

The department will measure ULO by each individual unit, acceptably completed. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. ULO include a trench up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended 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.0060.02	Utility Line Opening	EACH

Payment is full compensation for the excavation required to expose the utility line; measuring lateral and depth measurements of the utility line; providing required documentation of measurements to the engineer; backfilling with engineer approved material; compacting the backfill material; restoring the site; cleanup, and maintenance of ULO location during construction.

Existing pavement, concrete curb and gutter, and sidewalk removals necessary to facilitate utility line openings are not considered part of or paid for under ULO but are considered separate and measured and paid for separately as removal items. Granular backfill, pavement replacement material, concrete curb, gutter, and sidewalk items will also be considered separate from ULO and will be measured and paid for separately.

### **67. Field Facilities Office Space, Item SPV.0060.0003**

#### **A Description**

This special provision describes furnishing, equipping, and maintaining a field office as required in the contract at engineer-approved locations conforming to standard spec 642 and as follows.

#### **B Materials**

Provide Field Facilities Office Space conforming to standard spec 642.2.1 except delete paragraphs (1), (8), and (10).

*Replace standard spec 642.2.1(4) with the following:*

Provide and maintain suitable interior sanitary facilities conforming to State and local health requirements, in clean and good working condition, and stock with sanitary supplies for the duration of the contract. Furnish office space in an existing office building or existing building converted to office space with a minimum of 1200 square feet. The facility shall have no fee parking with a minimum parking for 15 cars. The space shall include a meeting room with a minimum of 350 square feet. The exterior door(s) shall have locks in good working order and keys provided for all field staff. The office space shall be located within 2 miles of the construction project.

Equip the office as specified in standard spec 642.2.2.1 except delete paragraph (1) and (5) and add the following:

1. 5 suitable office desks with drawers and locks.
2. 5 ergonomically correct office chairs in working condition with at a minimum: 5-legged base with casters, seat adjustable from 15 to 22 inches from the floor with a seamless waterfall, rounded, front edge, and high backrest with no arms or adjustable arms.
3. 4 six foot folding tables.
4. 1 ten foot folding table.
5. 5 two-drawer file cabinets.

6. 3 four-shelf bookcases.

7. 20 folding chairs.

Provide for the professional cleaning of the field office during regular business hours twice monthly. Provide clearly marked recycling and waste receptacles within the field office, and separate recycling and waste dumpsters near the field office. Cover outdoor containers to keep out rain, snow, and wind-driven debris. Provide regularly scheduled recycling and waste pick-up.

#### **C Construction**

Conform to standard spec 642.3 except delete paragraph (2).

#### **D Measurement**

The department will measure the Field Facilities Office Space as each office 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.0060.0003	Field Facilities Office Space	EACH

Payment is full compensation for providing, equipping, securing, and maintaining the facility; for parking, for telecommunications equipment, installation, and service fees; and for providing bottled water, utilities, fuel, ventilation, and toilet facilities as required, either independently or jointly with the field laboratory, for the time specified in 642.3.

The department will pay for the cost of telecommunications usage fees incurred by department staff.

SER-642-002 (20240112)

### **68. Traffic Control Close-Open Freeway Entrance Ramp, Item SPV.0060.0004.**

#### **A Description**

This special provision describes closing and re-opening a freeway entrance ramp and associated auxiliary lane.

#### **B (Vacant)**

#### **C Construction**

Install or reposition traffic control devices required for closing a freeway entrance ramp and adjacent auxiliary lanes. Remove or return traffic control devices to their previous configuration when the closure is no longer required.

#### **D Measurement**

The department will measure Traffic Control Close-Open Freeway Entrance Ramp by each individual ramp closure, 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.0060.0004	Traffic Control Close-Open Freeway Entrance Ramp	EACH

Payment is full compensation for daily surveillance; preparing and submitting the daily surveillance report with hourly metered tickets; mobilization; sweeping; and disposing of materials. Traffic Control devices will be paid separately.

sef-643-001 (20180627)

**69. Survey Project, Item SPV.0060.0005.**

**A Description**

This special provision describes modifying standard spec 105.6 and 650 to define the requirements for construction staking for this contract. Conform to standard spec 105.6 and 650 and as follows.

The department will not perform any construction staking for this contract. Obtain engineer's approval before performing all survey required to lay out and construct the work under this contract.

*Replace standard spec 650.1 with the following:*

This section describes the contractor-performed construction staking required under individual contract bid items to establish the horizontal and vertical position for all aspects of construction including:

- storm sewer
- subgrade
- base
- curb
- gutter
- curb and gutter
- curb ramps
- pipe culverts
- drainage structures
- structure layout
- bridges
- noise barriers
- all retaining wall layout
- pavement
- pavement markings (temporary and permanent)
- barriers (temporary and permanent)
- overhead signs
- freeway and local street lighting
- electrical installations
- supplemental control
- slope stakes
- ponds
- traffic signals
- ITS
- FTMS
- parking lots
- paths
- utilities
- conduit
- water main
- sanitary sewer
- traffic control items
- fencing

**B (Vacant)**

**C Construction**

*Add the following to standard spec 650.3.1 (5):*

Confirm with engineer before using global positioning methods to establish the following:

1. Structure layout horizontal or vertical locations.
2. Concrete pavement vertical locations.
3. Curb, gutter, and curb and gutter vertical locations.
4. Concrete barrier vertical locations.

5. Storm Sewer layout horizontal or vertical locations, including structure centers, offsets, access openings, rim and invert elevations.
6. Sanitary sewer construction or other gravity-based drainage system, including structure centers, offsets, access openings, rim and invert elevations.

*Replace standard spec 650.3.1.1(2) with the following:*

- (6) Maintain neat, orderly, and complete survey notes, drawings, and computations used in establishing the lines and grades. This includes:

- Raw data files
- Digital stakeout reports
- Control check reports
- Supplemental control files (along with method used to establish coordinates and elevation)
- Calibration report

Make the survey notes and computations available to the engineer within 24 hours as the work progresses unless a longer period is approved by the engineer.

*Replace standard spec 650.3.3.1 with the following:*

Under the Survey Project bid item, global positioning system (GPS) machine guidance for conventional subgrade staking on all or part of the work may be substituted. The engineer may require reverting to conventional subgrade staking methods for all or part of the work at any point during construction if the GPS machine guidance is producing unacceptable results.

*Replace standard spec 650.3.3.3.4.1 with the following:*

The department will provide the contractor staking packet as described in the Construction and Materials Manual (CMM) 7.10. At any time after the contract is awarded, the available survey and design information may be requested. The department will provide that information within 5 business days of receiving the contractor's request. The department incurs no additional liability beyond that specified in standard spec 105.6 or standard spec 650 by having provided this additional information.

*Add the following to standard spec 650.3.3.3.6.2 as paragraph four:*

Record all subgrade elevation checks and submit a hard copy to the engineer within 24 hours or as requested by the engineer.

## **D Measurement**

*Replace standard spec 650.4 with the following:*

- (1) The department will measure Survey Project as each survey project acceptably completed.

## **E Payment**

*Replace standard spec 650.5 with the following:*

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0005	Survey Project	EACH

Payment is full compensation for performing all survey work required to lay out and construct all work under this contract and for adjusting stakes to ensure compatibility with existing field conditions. The department will not make final payment for this item until the contractor submits all survey notes and computations used to establish the required lines and grades to the engineer within 24 hours of completing this work. Re-staking due to construction disturbance and knock-outs will be performed at no additional cost to the department.

sef-650-005 (20181219)



**70. Round Steel Sign Post System, Item SPV.0060.0006.**

**A Description**

Work under this item includes furnishing and installing sign posts and post anchors at the locations shown on the plans and according to the requirements of standard spec 634, the plans, and as hereinafter provided. All sign posts shall be round tubular steel and installed as shown in the plans.

**B Materials**

Furnish a round steel post with 2-3/8" outer diameter to the length necessary for sign placement, and a Tapco V-loc post anchor (Tapco item #034-00012 V-Loc,23-VR1 Model), for 2 3/8" Round Posts going into concrete (includes Wedge, Post Anchor), or a Tapco V-loc post anchor (Tapco item # 034-00003 V-Loc,23-VR2 Model) for 2 3/8" Round Posts going into soil (includes wedge and 24" long Anchor; and a set of two sign mounting Z-brackets or a set of two double sided sign mounting Z-brackets that fits a 2-3/8 post for each sign to be mounted.

**C (Vacant)**

**D Measurement**

The department will measure Round Steel Sign Post System as each post assembly, including each section and anchor, 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.0060.0006	Round Steel Sign Post System	EACH

Payment is full compensation for providing all materials including post, anchor, mounting brackets, and all related hardware; for installing the anchors and adapters; for placing the posts; treating cut post ends; for removing and disposing of surplus material; and for furnishing all hardware and fittings necessary for post and sign installation.

**71. Street Name Sign Mounting Hardware on Mast Arm, Item SPV.0060.0007.**

**A Description**

This special provision describes providing furnishing and installing Mounting Hardware on Mast Arm.

**B Materials**

Furnish 201 Stainless Steel Banding 3/4" x 0.20., Stainless Steel Flared Leg Sign Mount Bracket for 3/4" banding, 201 Stainless Steel Wing Seal (buckle) for 3/4" banding, 5/16" x 1-1/4" Stainless Steel Fender Washers, 5/16"-18 x 3/4" Stainless Steel Hex Head Bolt.

**C Construction**

Install and orient Mounting Hardware on Mast Arm as shown on the plans.

**D Measurement**

The department will measure Street Name Sign Mounting Hardware on Mast Arm by each unit, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.0007	Street Name Sign Mounting Hardware on Mast Arm	EACH

Payment is full compensation for furnishing and installing Street Name Sign Mounting Hardware on Mast Arm.

## **72. Temporary Lighting System, Item SPV.0060.1000.**

### **A Description**

This work consists of furnishing temporary lighting for the duration of the construction project. Temporary Lighting will include energizing a portion of new lighting that is placed during Stage 1 construction to be used to light National Avenue during Stage 2 construction.

### **B Materials**

Furnish and install temporary wood poles as identified in the plans. Temporary wood poles shall be 30'-0" above finished grade. Temporary Lighting shall be a combination of existing lighting fixtures and new light fixtures. Install temporary wiring aerially as required to maintain existing circuits for National Avenue and side streets as identified on temporary lighting plan. See plans for details.

### **C Construction**

Keep existing illumination systems, their approved temporary replacements, or temporary construction lighting in effective operation for the benefit of the traveling public during construction progress, except when shutdown is permitted to allow alteration or final removal of the systems. Lighting system shutdowns shall not interfere with the regular lighting schedule unless otherwise permitted. Shutdown schedules are subject to approval by the engineer.

Determine the exact location of existing conduit runs and pull boxes before using equipment that may damage such facilities or interfere with any system.

All circuits to lighting outside of project scope shall stay energized without interruption. If damage is caused by the contractors' operations, damaged facilities shall be repaired or replaced promptly at no additional compensation.

Where roadways are to remain open to traffic and existing lighting systems are to be modified, the existing systems shall be kept in operation until the final connection to the modified circuit is made. The modified circuit shall be complete and operating by nightfall of the same day the existing system is disconnected.

Keep temporary construction lighting installations in effective operation until they are no longer required for the protection of the traveling public.

Reusable equipment damaged when the contractor is removing and salvaging existing material shall be replaced or repaired at the contractor's expense.

Existing installations to be removed shall be kept in operation until the new installations are ready to be turned on or as directed by the engineer.

Existing materials that interfere with or which are incompatible with new construction shall be removed or salvaged in the order directed, as specified or approved, before completion of the new construction.

Notify the engineer at least five calendar days in advance of removing or salvaging the existing materials. Material damaged by the removal and salvage operations shall be repaired or replaced at the contractor's expense.

### **D Measurement**

The department will measure Temporary Lighting System by each individual lighting system, successfully provided for the project. Temporary Lighting System will be paid as one system and cover the project for the duration of the project. Temporary lighting system work required for each construction stage will not be measured or paid for separately.

### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.1000	Temporary Lighting System	EACH

Payment is full compensation for furnishing and maintaining the temporary lighting system for the duration of project construction.

## **73. Maintenance of Lighting Systems, Item SPV.0060.1001.**

### **A Description**

Maintain existing and proposed lighting system beginning on the date that the contractor's activities (electrical or otherwise) at the job site begin. Take responsibility for the proper operation and maintenance of all existing and proposed lighting systems which are part of, or which may be affected by, the work until final acceptance or as otherwise determined by the engineer.

Before performing any excavation, removal, or installation work (electrical or otherwise) at the site, initiate a request for a maintenance transfer and preconstruction inspection, as specified elsewhere herein, to be held in the presence of the engineer and a representative of the party or parties responsible for maintenance of any lighting systems which may be affected by the work. Make the request for the maintenance preconstruction inspection no less than seven calendar days prior to the desired inspection date.

Existing lighting systems, when depicted on the plans, are intended only to indicate the general equipment installation of the systems involved and shall not be construed as an exact representation of the field conditions. Visit the site to confirm and ascertain the exact condition of the electrical equipment and systems to be maintained. Condition issues found during contractor assessment can be discussed and addressed by contacting the SE Region Lighting Engineer (Eric Perea) prior to maintenance responsibility being transferred to the contractor.

### **B Materials**

### **C Construction**

#### **C.1 Existing Lighting Systems**

Existing lighting systems are defined as any lighting system or part of a lighting system in service prior to this contract. The contract drawings indicate the general extent of any existing lighting. Ascertain the extent of effort required for compliance with these specifications; failure to do so will not be justification for extra payment or reduced responsibilities. Clear and replace any knockdowns or damage caused to the existing lighting system, regardless of who causes the damage. Maintain existing lighting system as follows:

**Partial Maintenance:** Only maintain the affected circuits if the number of circuits affected by the contract is equal to or less than 40% of the total number of circuits in a given controller and the controller is not part of the contract work unless otherwise indicated. Ensure engineer approval to isolate the affected circuits by means of in-line waterproof fuse holders as specified elsewhere.

**Full Maintenance:** Maintain the entire controller and all associated circuits if the number of circuits affected by the contract is greater than 40% of the total number of circuits in a given controller, or if the controller is modified in any way under the contract work.

#### **C.2 Proposed Lighting Systems**

Proposed lighting systems are any temporary or final lighting systems or part of a lighting system to be constructed under this contract.

Maintain all items installed under this contract, including, but not be limited to, any equipment failures or malfunctions as well as equipment damage either by the motoring public, contractor operations, or other means.

Excluding damage due to contractor operations, the contractor will be reimbursed for replaced equipment, materials only, if the invoice paid for the individual piece of equipment is greater than \$500. The cost of maintaining equipment installed under this contract, labor, mobilization, tools and incidentals along with repairs due to contractor operations are incidental to this bid item.

#### **C.3 Maintenance Operations**

Maintain lighting units (including sign lighting), cable runs, and lighting controls. In the case of a pole knockdown or sign light damage caused by normal vehicular traffic, promptly clear the lighting unit and circuit discontinuity and restore the system to service. Reinstall the lighting unit (if salvageable), or install a new one.

Provide weekly night-time patrol of the lighting system, with patrol reports filed immediately with the engineer and copied to the region lighting coordinator with deficiencies corrected within 24 hours of the patrol. Present patrol reports on standard forms as designated by the engineer. Uncorrected deficiencies may be designated by the engineer as necessitating emergency repairs as described elsewhere herein.

Perform corrective action on specific lighting system equipment according to the following chart. The chart lists the maximum response, service restoration, and permanent repair time.

Incident or Problem	Service Response Time	Service Restoration Time	Permanent Repair Time
Control cabinet out	1 hour	4 hours	7 Calendar days
Hanging mast arm	1 hour to clear	N/A	7 Calendar days
Motorist caused damage or leaning light pole 10 degrees or more	1 hour to clear	4 hours	7 Calendar days
Circuit out – Needs to reset breaker	1 hour	4 hours	N/A
Circuit out – Cable trouble	1 hour	24 hours	21 Calendar days
Outage of 3 or more successive lights	1 hour	4 hours	N/A
Outage of 75% of lights on one tower	1 hour	4 hours	N/A
Outage of light nearest RR crossing approach, Islands and gores	1 hour	4 hours	N/A
Outage (single or multiple) found on night outage survey	N/A	N/A	7 Calendar days

#### C.4 Lighting

1. **Serve Response Time:** The amount of time from the initial notification to the contractor until a patrolman physically arrives at the location.
2. **Service Restoration Time:** The amount of time from the initial notification to the contractor until the time the system is fully operational again. (In cases of motorist-caused damage, the undamaged portions of the system are operational.)
3. **Permanent Repair Time:** The amount of time from initial notification to the contractor until the time permanent repairs are made if the contractor was required to make temporary repairs to meet the service restoration requirement.

Failure to provide this service will result in liquidated damages of \$500 per day per occurrence. In addition, the department reserves the right to assign any work not completed within this timeframe to the State Electrical Engineering and Electronics Unit. Reimburse all costs associated to repair this uncompleted work. Failure to pay these costs to the State Electrical Engineering and Electronics Unit within one month after the incident will result in additional liquidated damages of \$500 per month per occurrence. Unpaid bills will be deducted from the cost of the contract. Repeated failures and/or a gross failure of maintenance shall result in the State's Electrical Engineering and Electronics Unit being directed to correct all deficiencies and the resulting costs deducted from any monies owed the contractor.

#### C.5 Operation of Lighting

Maintain operational lighting every night, dusk to dawn. Do not operate duplicate lighting systems (such as temporary lighting and proposed new lighting) simultaneously. Do not keep lighting systems in operation during long daytime periods. Ensure that the lighting system is fully operational and approved by the engineer prior to submitting a pay request. Failure to do so will be grounds for denying the pay request.

#### D Measurement

The department will measure Maintenance of Lighting Systems as a single lump sum unit of work, per contract, 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.0060.1001	Maintenance of Lighting Systems	EACH

Payment is full compensation for Maintenance of Lighting Systems, both existing and proposed, weekly night-time patrol of the lighting system, mobilization, and filed patrol reports. No payment will be considered for damage or repairs due to contractor operations.

**74. Enter Existing Fiber Optic Splice Enclosure, Item SPV.0060.2000.**

**A Description**

Work under this item shall consist of opening, cleaning, resealing, and reinstalling an existing fiber optic splice enclosure, as shown in the plans or as direct by the engineer.

**B Materials**

None.

**C Construction**

Open, clean, reseal, and reinstall the fiber optic splice enclosure according to the manufacturer's recommended guidelines. All work shall be done in accordance with Section 678 of the State of Wisconsin Department of Transportation Standard Specifications and as described in these specifications.

Affix the fiber optic splice enclosure to the side of the manhole or vault using the cable support brackets. All cables shall be properly dressed and affixed to rails or racks within the manhole or vault. No cables or enclosures will be permitted to lie on the floor.

**D Measurement**

The department will measure as a unit completed in place, accepted, and the enclosure affixed to the manhole or vault, including all incidentals required.

**E Payment**

Enter Existing Fiber Optic Splice Enclosure measured as provided above, will be paid for at the contract unit price each under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.2000	Enter Existing Fiber Optic Splice Enclosure	EA

Payment is full compensation for opening, cleaning, resealing, and reinstalling the enclosure, including all labor, tools, materials, equipment, mobilization, permits, troubleshooting, acceptance, and incidentals necessary to complete the work.

**75. Store Cable, Item SPV.0060.2001.**

**A Description**

Work under this item shall consist of storing and protecting cable in a department furnished cabinet so that the cable may be reinstalled.

**B Materials**

Materials include a department furnished field cabinet and existing cable that has been removed.

**C Construction**

Contact Dean Beekman ((414)-750-1811) to arrange to pick up and drop off of the department furnished field cabinet.

Pick up and drop off the department furnished field cabinet at 606 N. James Lovell St., Milwaukee, WI 53233

Place the department furnished field cabinet over an existing cable hand hole (pull box, manhole, or vault).

Coil the existing removed cable and place it inside the cabinet to protect the cable until it is ready to be reinstalled.

Return the department furnished field cabinet when the cable.

**D Measurement**

The department will measure as a unit completed in place, accepted, and the cable stored and protected in the department furnished field cabinet, including all incidentals required.

## Payment

Store Cable measured as provided above, will be paid for at the contract unit price each under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.2001	Store Cable	EA

Payment is full compensation for picking up the department furnished field cabinet, coiling and placing the cable inside the field cabinet, returning the field cabinet, including all labor, tools, transportation, equipment, and incidentals necessary to complete the work.

## 76. Remove Cellular Modem, Item SPV.0060.2002.

### A Description

This special provision describes removing a wireless cellular modem and antenna and all associated wiring

### B (Vacant)

### C Construction

Carefully remove the antenna on top of the cabinet or other field device and seal the hole with purpose-made waterproof sealing device such as a grommet or gasket.

Carefully remove the wireless modem from the existing field cabinet or device. Salvage the wireless modem and antenna for pick up by the Department.

### D Measurement

The department will measure Remove Cellular Modem by the unit, removed according to the contract, tested, 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.0060.2002	Remove Cellular Modem	EA

Payment is full compensation for removing a wireless modem and antenna; all necessary hardware.

## 77. Install Poles Type 9, Item SPV.0060.3001; Install Poles Type 9 Special, Item SPV.0060.3002; Install Poles Type 9 – Over Height, Item SPV.0060.3003; Install Poles Type 10, Item SPV.0060.3004; Install Poles Type 10 Special, Item SPV.0060.3005; Install Monotube Arms 15-FT, Item SPV.0060.3006; Install Monotube Arms 20-FT, Item SPV.0060.3007; Install Monotube Arms 25-FT, Item SPV.0060.3008; Install Monotube Arms 30-FT, Item SPV.0060.3009; Install Monotube Arms 40-FT-Special, Item SPV.0060.3010; Install Monotube Arms 45-FT-Special, Item SPV.0060.3011; Install Luminaire Arms Steel 15-FT, Item SPV.0060.3012; Install Monotube Arms 55-FT, Item SPV.0060.3040; Install Poles Type 13, Item SPV.0060.3044.

### 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 all other needed materials in conformance with sections 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2 of the standard specifications.

### **C Construction**

Perform work in accordance with sections 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 of the standard specifications except as specified below.

### **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.0060.3001	Install Poles Type 9	EACH
SPV.0060.3002	Install Poles Type 9 Special	EACH
SPV.0060.3003	Install Poles Type 9 – Over Height	EACH
SPV.0060.3004	Install Poles Type 10	EACH
SPV.0060.3005	Install Poles Type 10 Special	EACH
SPV.0060.3006	Install Monotube Arms 15-FT	EACH
SPV.0060.3007	Install Monotube Arms 20-FT	EACH
SPV.0060.3008	Install Monotube Arms 25-FT	EACH
SPV.0060.3009	Install Monotube Arms 30-FT	EACH
SPV.0060.3010	Install Monotube Arms 40-FT-Special	EACH
SPV.0060.3011	Install Monotube Arms 45-FT-Special	EACH
SPV.0060.3012	Install Luminaire Arms Steel 15-FT	EACH
SPV.0060.3040	Install Monotube Arms 55-FT	EACH
SPV.0060.3044	Install Poles Type 13	EACH

Payment is full compensation for installing all materials, including all associated hardware, fittings, mounting devices, and attachments necessary to completely install the pole and arms.

**78. Trnspt & Install State Furn Traffic Signal Cab STH 59 & S. 48<sup>th</sup> St, Item SPV.0060.3013;  
Trnspt & Install State Furn Traffic Signal Cab STH 59 & S. 47<sup>th</sup> St, Item SPV.0060.3014;  
Trnspt & Install State Furn Traffic Signal Cab STH 59 & Miller Park Way, Item  
SPV.0060.3015.**

### **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 (5) working days prior to picking the materials up.

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

### **C Construction**

Perform work in accordance with sections 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 of the standard specifications except as specified below.

Request a signal inspection of the completed signal installation to the project engineer at least five (5) working days prior to the time of the requested inspection. The Village will perform the inspection.

Coordinate directly with the department's traffic signal cabinet vendor {TAPCO at 262-814-7327 or rickk@tapconet.com / TCC at 651-439-1737 or mallwood@trafficcontrolcorp} to schedule the cabinet acceptance testing. Coordinate with the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 to participate in the acceptance testing. The Village has final determination of the cabinet acceptance testing date and time.

Input traffic signal timings and other parameters into the traffic signal controller as directed by the department or Village of West Milwaukee to allow the traffic signal to operate according to the traffic signal plans.

Allow the department and Village of West Milwaukee and/or its representatives to review the operation of the controller prior to putting the new programming into service. Provide guidance as needed on special programming features based on the traffic signal plans to maintain proper operation.

#### **D Measurement**

The department will measure Trnspt & Install State Furn Traffic Signal Cabinet [Location] as each individual unit of work in place and accepted.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3013	Trnspt & Install State Furn Traffic Signal Cab STH 59 & S. 48th St	EACH
SPV.0060.3014	Trnspt & Install State Furn Traffic Signal Cab STH 59 & S. 47th St	EACH
SPV.0060.3015	Trnspt & Install State Furn Traffic Signal Cab STH 59 & Miller Park Way	EACH

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; for programming the traffic signal controller to accommodate the operations shown in the traffic signal plans and for clean-up and waste disposal.

- 79. Trnspt & Install State Furn EVP Heads & Con Light STH 59 & Miller Park Way, Item SPV.0060.3016;  
Trnspt & Install State Furn EVP Heads & Con Light STH 59 & S. 48<sup>th</sup> St, Item SPV.0060.3042;  
Trnspt & Install State Furn EVP Heads & Con Light STH 59 & S. 47<sup>th</sup> St, Item SPV.0060.3043.**

#### **A Description**

This special provision describes the transporting and installing of department furnished Emergency Vehicle Preemption (EVP) Detector Heads, confirmation lights, and mounting brackets at STH 59 (W. National Ave) & STH 175 (Brewers Blvd) & Miller Park Way.

#### **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 (5) working days prior to picking the materials up.

#### **C Construction**

Install the EVP detector heads and confirmation lights as shown on the plans. The contractor 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. Mount the confirmation lights and wire them with 3-14AWG Traffic Signal cable in a continuous run from the cabinet to the confirmation lights. 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.



Notify the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 upon completion of the installation of the Emergency Vehicle Preemption (EVP) Detector Heads with confirmation lights.

#### **D Measurement**

The department will measure transporting and installing of department furnished Emergency Vehicle Preemption (EVP) Detector Heads, confirmation lights, and mounting brackets as each individual 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.0060.3016	Trnspt & Install State Furn EVP Heads & Con Light STH 59 & Miller Park Way	EACH
SPV.0060.3042	Trnspt & Install State Furn EVP Heads & Con Light STH 59 & S. 48 <sup>th</sup> St	EACH
SPV.0060.3043	Trnspt & Install State Furn EVP Heads & Con Light STH 59 & S. 47 <sup>th</sup> St	EACH

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

### **80. Trnspt Traffic Signals & Inter Lighting Materials STH 59 & STH 59, Item SPV.0060.3018; Trnspt Traffic Signals & Inter Lighting Materials STH 59 & S. 48<sup>th</sup> St, Item SPV.0060.3019; Trnspt Traffic Signals & Inter Lighting Materials STH 59 & S. 47<sup>th</sup> St, Item SPV.0060.3020; Trnspt Traffic Signals & Inter Lighting Materials STH 59 & Miller Park Way, Item SPV.0060.3021.**

#### **A Description**

This special provision describes the transporting of department furnished monotube poles, monotube arms, and monotube luminaire arms.

#### **B Materials**

Transport materials furnished by the department including: Monotube poles, monotube arms and monotube 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 sections 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2 of the standard specifications.

#### **C Construction**

Perform work in accordance with sections 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 of the standard specifications.

#### **D Measurement**

The department will measure Trnspt Traffic Signals & Inter Lighting Materials [Location] as each individual unit of work in place and accepted.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3018	Trnspt Traffic Signals & Inter Lighting Materials STH 59 & STH 59	EACH
SPV.0060.3019	Trnspt Traffic Signals & Inter Lighting Materials STH 59 & S. 48th St	EACH
SPV.0060.3020	Trnspt Traffic Signals & Inter Lighting Materials STH 59 & S. 47th St	EACH
SPV.0060.3021	Trnspt Traffic Signals & Inter Lighting Materials STH 59 & Miller Park Way	EACH

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

81. **Trnsprt & Install State Furn Accessible Ped Sig System STH 59 & S. 70<sup>th</sup> St, Item SPV.0060.3022;**  
**Trnsprt & Install State Furn Accessible Ped Sig System STH 59 & STH 59, Item SPV.0060.3023;**  
**Trnsprt & Install State Furn Accessible Ped Sig System STH 59 & S. 48<sup>th</sup> St, Item SPV.0060.3024;**  
**Trnsprt & Install State Furn Accessible Ped Sig System STH 59 & S. 47<sup>th</sup> St, Item SPV.0060.3025;**  
**Trnsprt & Install State Furn Accessible Ped Sig System STH 59 & Miller Park, Item SPV.0060.3026.**

#### **A Description**

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

#### **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 (5) working days prior to picking the materials up.

#### **C Construction**

Install the department furnished accessible 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.

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. The Village/City to provide the audible messaging for the vendor to program. Notify the Village, the City and vendor at least five working days prior to the date of programming. Assist the Village and vendor with equipment adjustments and setup during the system programming, if necessary.

#### **D Measurement**

The Department will measure Transport and Install State Furnished Audible Pedestrian Signal System as 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.0060.3022	Trnsprt and Install State Furn Accessible Ped Sig System STH 59 & S. 70th St	EACH
SPV.0060.3023	Trnsprt and Install State Furn Accessible Ped Sig System STH 59 & STH 59	EACH
SPV.0060.3024	Trnsprt and Install State Furn Accessible Ped Sig System STH 59 & S. 48th St	EACH
SPV.0060.3025	Trnsprt and Install State Furn Accessible Ped Sig System STH 59 & S. 47th St	EACH
SPV.0060.3026	Trnsprt and Install State Furn Accessible Ped Sig System STH 59 & Miller Park	EACH

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.

82. **Trnspt & Install State Furn Video Detection System, STH 59 & STH 59, Item SPV.0060.3027;**  
**Trnspt & Install State Furn Video Detection System STH 59 & S. 48<sup>th</sup> St, Item SPV.0060.3028;**  
**Trnspt & Install State Furn Video Detection System STH 59 & S. 47<sup>th</sup> St, Item SPV.0060.3029;**  
**Trnspt & Install State Furn Video Detection System STH 59 & Miller Park, Item SPV.0060.3030.**

**A Description**

This special provision describes the transporting and installing of a department furnished traffic signal video detection system on monotube and luminaire arms.

**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 (5) working days prior to picking the materials up.

**C Construction**

Install the department-furnished video detection system as show on the plans (the final determination of location will be made by the department's electrical personnel to ensure the best line of sight). The contractor shall install the State-furnished video detection equipment in the traffic signal control cabinet.

Install the cable to run continuously (without splices) from the traffic signal cabinet to the camera.

Mark each end of the lead appropriately to indicate the equipment label (i.e. VID 1, VID 2, etc.). Terminate the power cable at each end per the manufacturer's specifications. Allow 3 feet of slack on each cable.

Notify the Village of West Milwaukee contact Jason Jourdan at (414) 645-6238 upon completion of the Monotube and Luminaire arm installation of the cable and camera at each intersection.

Notify the City of West Allis Department of Public Works at (414) 302-8808 upon completion of the Monotube and Luminaire arm installation of the cable and camera at each intersection.

The department will provide notification of the video detection system vendor and provide the vendor's contact information. Coordinate directly with the department's video detection system vendor to arrange for the vendor to program the video detection. Notify the Village and vendor at least five (5) working days prior to the date of programming.

**D Measurement**

The department will measure Transport & Install State Furnished Video Detection System [Location] as each intersection acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3027	Trnspt & Install State Furn Video Detection System STH 59 & STH 59	EACH
SPV.0060.3028	Trnspt & Install State Furn Video Detection System STH 59 & S. 48th St	EACH
SPV.0060.3029	Trnspt & Install State Furn Video Detection System STH 59 & S. 47th St	EACH
SPV.0060.3030	Trnspt & Install State Furn Video Detection System STH & Miller Park	EACH

Payment is full compensation for transporting and installing the video detection system, cable, mounting hardware, and camera units; and assisting the department and vendor during the video detection system programming.

**83. Temporary EVP System STH 59 & Miller Park Way, Item SPV.0060.3031.**

**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 STH 59 (W. National Ave) & STH 175 (Brewers Blvd) & Miller Park Way by the individual intersection acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3031	Temporary EVP System STH 59 & Miller Park Way	EACH

Payment is full compensation for furnishing and installing a temporary emergency vehicle preemption system, complete and fully operational at an intersection.

**84. Trnspt & Install State Furn Radio, STH 59 & S. 48<sup>th</sup> St, Item SPV.0060.3032;  
Trnspt & Install State Furn Radio, STH 59 & S. 47<sup>th</sup> St, Item SPV.0060.3033;  
Trnspt & Install State Furn Radio, STH 59 & Miller Park Way, Item SPV.0060.3034.**

**A Description**

This special provision describes the installing of department furnished radio interconnect equipment at the project intersections.

**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 (5) working days prior to picking the materials up.

Provide all other needed materials in conformance to subsections 651.2, 652.2, 653.2, 654.2, 655.2, 656.2, 657.2, 658.2 and 659.2 of the standard specifications.

#### **C Construction**

Perform work in accordance with sections 651.3, 652.3, 653.3, 654.3, 655.3, 656.3, 657.3, 658.3 and 659.3 of the standard specifications except as specified below.

Submit a request for signal inspection of the completed signal installation to the engineer at least three working days prior to the time of the requested inspection. The Village personnel will perform the inspection.

#### **D Measurement**

The department will measure each Install Trnspt & Install State Furn Radio [Location] as each radio unit acceptably installed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3032	Trnspt & Install State Furn Radio STH 59 & S. 48th St	EACH
SPV.0060.3033	Trnspt & Install State Furn Radio STH 59 & S. 47th St	EACH
SPV.0060.3034	Trnspt & Install State Furn Radio STH 59 & Miller Park Way	EACH

Payment is full compensation for installing the radio interconnect equipment as listed in the plans; for installing all other items necessary to make the proposed system complete from the source of supply to the most remote unit; for clean-up and waste disposal; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

### **85. Store Existing Communications Cable STH 59 & Miller Park Way, Item SPV.0060.3035.**

#### **A Description**

This special provision describes storing the existing copper communications cable within a proposed pull box.

#### **B (Vacant)**

#### **C Construction**

Contractor shall disconnect the existing communications cable from the existing controller and pull back the cable to the proposed pull box. Cable shall be coiled, protected, and permanently stored within the proposed pull box..

#### **D Measurement**

The department will measure Store Existing Communications Cable STH 59 (W. National Ave) & STH 175 (Brewers Blvd) & Miller Park Way by the individual intersection acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3035	Store Existing Communications Cable STH 59 & Miller Park Way	EACH

Payment is full compensation for disconnecting, pulling back, coiling, protecting and permanently storing the existing cable at an intersection.

### **86. Geometrically Programmed Louvers, STH 59 & STH 59, Item SPV.0060.3036.**

#### **A Description**

This section covers the minimum design and material requirements for a twelve (12) inch louver assembly designed to direct the light beam from a traffic signal section to a predetermined viewing range. The physical and functional standards of the louver shall conform to the latest Institute of Transportation

Engineers Standards. Work shall be in accordance with the requirements of standard spec 658, the plans, standard detail drawings, and as hereinafter provided.

## **B Materials**

The louver assembly, made up of the housing and baffles, shall be designed to fit into a twelve (12) inch nominal dimension signal. The louver shall provide a full display with minimum slat effect throughout the selected view range. In addition, the louver shall have a minimum glow outside the view range. The louver shall allow the view angle within each signal section to be adjusted to a designated area. The louver shall allow for controlling either the horizontal or vertical view range within the signal visor. The louver shall be of lightweight material, easily installed with minimum labor, and maintenance free.

The housing shall consist of a two-piece assembly injection molded from black UV stable ABS plastic. Two brass inserts shall be molded into the bottom half allowing the assembly to be fastened together with two stainless steel screws. The housing shall have spherical contour which allows the light beam from the signal section to be directed up in all directions from the centerline of the visor/lens system. The inside surface shall have a multiplicity of grooves for positioning light directing baffles. The remaining inside surface shall be grooved to prevent surface reflections of light.

Baffles shall be injected molded from black UV stable ASA plastic. Each baffle shall be a thin opaque disc with a multiple of parallel evenly spaced apertures. Each structural member forming the aperture shall have a cross section which allows for good stiffness and structural integrity but shall have a thin edge to prevent reflection outside the desired viewing range. All baffles shall be identical in design and interchangeable within the housing. The plane of each baffle shall be 90 degrees to the centerline axis of the housing.

## **C Construction**

In accordance with the plans and section 658.3 of the standard specifications and as hereinafter provided:

The louver shall attach to the inside of the traffic signal visor with stainless hardware. Follow all manufacturer installation guidelines for installation.

Louvers shall be installed at the locations noted on the plans at the intersection of STH 59 (W. Greenfield Ave) & STH 59 (W. National Ave).

Contact the City of West Allis Public Works Department at (414) 302-8808 at least five working days prior to arrange for a City personnel to be on-site during set-up to ensure the heads are masked enough.

## **D Measurement**

The item will be measured in place by the unit and the quantity measured for payment will be the number of louvers installed.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3036	Geometrically Programmed Louvers, STH 59 & STH 59	EACH

Payment is full compensation for furnishing and installing geometrically programmed louvers, which consist of the housing and baffles, stainless hardware, and installation kit.

## **87. Trnspt & Install State Furn Transformer Base Breakaway 11-1/2" Bolt Circle, Item SPV.0060.3037.**

### **A Description**

This special provision describes the transporting and installing of department furnished Transformer Bases Breakaway 11-1/2" Bolt Circle.

### **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 (5) working days prior to picking the materials up.

State furnished transformer base includes the mounting hardware and grounding lug.

**C Construction**

Perform work in accordance with sections 657.3 of the standard specifications.

**D Measurement**

The department will measure transporting and installing of department furnished Transformer Base Breakaway 11-1/2" Bolt Circle as each individual 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.0060.3037	Trnspt & Install State Furn Transformer Base Breakaway 11-1/2" Bolt Circle	EACH

Payment is full compensation for transporting and installing of department furnished Transformer Base Breakaway 11-1/2" Bolt Circle and for leveling shims.

**88. Concrete Bases Type 1 Spread Footing, Item SPV.0060.3038.**

**A Description**

This special describes Concrete Bases Type 1 with Spread Footings conforming to 654 of the standard specs, as the plans show, and as follows.

**B Materials**

Use materials that conform to 654.2 of the standard specs.

**C Construction**

Construct bases conforming to 654.3 of the standard specs.

**D Measurement**

The department will measure Concrete Bases Type 1 Spread Footing bid items 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.0060.3038	Concrete Bases Spread Footing Type 1	Each

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

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**89. Traffic Signal Controller Programming, Item SPV.0060.3039.**

**A Description**

This special provision describes programming the traffic signal controller to update the intersection phasing and timing. Specific controller programming direction will be provided by the department.

**B (Vacant)**

**C Construction**

Input traffic signal timings and other parameters into the traffic signal controller as directed by the department or City of West Allis to allow the traffic signal to operate according to the traffic signal plans.

Allow the department and City of West Allis and/or its representatives to review the operation of the controller prior to putting the new programming into service. Provide guidance as needed on special programming features based on the traffic signal plans to maintain proper operation.

#### **D Measurement**

The department will measure Traffic Signal Controller Programming by the unit acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.3039	Traffic Signal Controller Programming	Each

Payment is full compensation for programming the traffic signal controller to accommodate the operations shown in the traffic signal plans.

### **90. Water Main Protection, Item SPV.0060.5001.**

#### **A Description**

This special provision describes protecting existing water mains from newly constructed storm drainage facilities. No structures will be allowed over the existing water main or hydrant branch with less than 18" of vertical out-to-out clearance. Alternate drainage structures shall be used to provide minimum sewer-water clearances required by Wisconsin DNR.

#### **B Materials**

Contractor shall furnish and install materials as detailed on the construction plans and in the Construction section below.

#### **C Construction**

Construct drainage structure, located above and across an existing water main, by utilizing materials and joints that are water tight. For all catch basins and inlets that have less than 24" out-to-out of horizontal clearance, the following water main protections shall be made:

- 1) The catch basins and inlets shall be altered to provide 18" of vertical clearance to the water mains or hydrant branches.
- 2) The catch basins and inlets shall be wrapped with 2 layers of 8 mil polyethylene around the base and extending 1ft vertically on all sides of the drainage structure.

#### **D Measurement**

The department will measure Water Main Protection as each individual water main protection 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.0060.5001.	Water Main Protection	Each

Payment is full compensation for protecting existing water mains; and for all excavation, backfilling, disposal of surplus materials, restoration of the work site, and for furnishing all labor, equipment, materials, tools and incidentals necessary to complete the work.

### **91. Adjusting Water Valve Boxes-Milwaukee, Item SPV.0060.5002; Adjusting Water Manholes, Item SPV.0060.5003.**

#### **A. Description**

This special provision describes adjusting, protecting, and maintaining accessibility, for the duration of the paving project, to all City of Milwaukee water service boxes, water valve boxes, and water manhole frames & lids located within the project limits.

#### **B. Materials**

All material for the adjustment of these facilities shall meet City of Milwaukee specifications and will be provided by the City of Milwaukee by contacting John Olson, Milwaukee Water Works, at (414)708-4413 (or Syreeta Woodley, Milwaukee Water Works at (414)286-6302). Milwaukee Water Works Distribution General Contact Number is (414) 286-3710.



If there is contractor damage, the materials must still be provided by the City of Milwaukee, however, in this case, the Contractor will be charged for all materials. Materials furnished by the City of Milwaukee and not used on the project shall be delivered back to DPW Field Headquarters – Infrastructure, Operations, Water Works at 3850 N. 35<sup>th</sup> St.

### **C. Construction**

The Contractor, or authorized project representative, shall contact Milwaukee Water Works prior to the start of construction. The City will locate, mark, inspect and repair all water service boxes, water valve boxes, and water manhole frames & lids within the limits of the project prior to commencement of work on the project.

All water service boxes, water valve boxes, and water manhole frames & lids within the project limits shall be adjusted to proposed elevations by the Contractor using materials meeting city specifications.

Throughout the duration of the project, the Contractor must ensure that all water service boxes, water valve boxes, and water manholes are adequately located and identified by blue paint, and that at all times, all water appurtenances remain accessible for operation by city forces. Exercise caution working adjacent to water facilities to avoid damage and ensure accessibility.

Upon completion of the contract, the City will inspect all water facilities to ensure the water boxes and manholes are clean, properly aligned, and accessible. The Contractor shall be responsible to make identified repairs and adjustments, and if any repairs or adjustments are made by the City, the cost will be charged to the Contractor.

### **D. Measurement**

The department will measure Adjusting Water Boxes and Adjusting Water Manholes as each individual unit acceptably completed.

### **E. Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.5002	Adjusting Water Valve Boxes-Milwaukee	Each
SPV.0060.5003	Adjusting Water Manholes	Each

Payment is full compensation for all excavation, backfilling, disposal of surplus materials, water box or water manhole adjustments, water box or water manhole clean-out, and restoration of the work site; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

## **92. Adjusting Water Valve Boxes-Village of West Milwaukee, Item SPV.0060.5004.**

### **A Description**

This special provision describes adjusting, protecting, and maintaining accessibility, for the duration of the paving project, to all Village of West Milwaukee water service boxes and water valve boxes located within the project limits.

### **B (Vacant)**

### **C Construction**

Adjust water valve boxes up and down as required by contractor operations. Set the finished valve box in a plumb, vertical position flush with the pavement or terrace, whichever applies.

Upon completion of the paving, the Village of West Milwaukee will inspect all water facilities to ensure the water boxes are clean, properly aligned, accessible, and functional. If the village determines the valve is inoperable due to displacement of faulty adjusting or lack of protection, the contractor will be required to perform all work necessary to correct the condition and make the valve operational at the contractors own expense and with five working days of notification by the village.

### **D Measurement**

The department will measure Adjust Water Valve Boxes as each unit, acceptably completed, regardless of the number and amount of adjustments made to the valve box.

## **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.5004	Adjust Water Valve Boxes-West Milwaukee	EACH

Payment is full compensation for furnishing and installing all required materials, excavation, backfilling, disposal of surplus materials, water box adjustments, water box clean-out, and restoration of the work site.

### **93. Internal Sanitary Manhole Seal, SPV.0060.5005.**

#### **A Description**

The work under this item includes furnishing and installing internal manhole chimney seals for each sanitary manhole identified on the plans.

#### **B Material**

The contractor shall furnish and install frame-to-chimney seals on all sanitary manholes within the limits of this contract. The seals shall be as specified in the Standard Specification for Sewer and Water Construction in Wisconsin (Sixth Edition with addendum) Chapter 8.42.0.

#### **C Construction**

The inside diameter of the manhole frame and the manhole chimney shall be field measured, and a determination as to whether the inside face of the frame is vertical or tapered shall be made in order to obtain the proper size and shape rubber seal.

Internal rubber chimney seals shall be installed no sooner than 24 hours following chimney back plastering.

The surfaces against which the sleeve is to be compressed shall be circular, clean, reasonably smooth and free of any loose materials and excessive voids. Any flaws in these surfaces shall be repaired with the approved low-shrink mortar or ground smooth. A bead of butyl rubber caulk conforming to AASHTO M-198 Type B shall be applied to the lower sealing surface of sleeve.

The seal shall be installed according to the manufacturer's instructions. (Refer to the plan data for configuration of chimney seal.)

#### **D Measurement**

The department will measure Internal Sanitary Manhole Seal as each individual manhole seal, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.5005	Internal Sanitary Manhole Seal	EACH

Payment is full compensation for furnishing and installing internal rubber chimney seals and for all incidentals necessary to complete the work.

### **94. Reconnect Storm Sewer, Item SPV.0060.8002.**

#### **A Description**

This special provision describes connecting proposed storm sewer pipe/structures to existing storm sewer pipe/structures or proposed pipe/structures.

#### **B Materials**

Furnish concrete for concrete collar conforming to standard spec 520.2.4.

Furnish storm sewer pipe in accordance to Section 608.2.

## **C Construction**

Remove existing concrete collars, pipe seals or end walls constructed under previous projects or in earlier stages of this project as necessary to reconnect storm sewer. Ensure that positive drainage is achieved when connecting proposed pipe to existing structures or storm sewer. Salvage any structurally sound pipe that requires removal if prior approval is granted by the engineer. Make all necessary connections using the appropriate coupling, concrete collar, or by means approved by the engineer.

## **D Measurement**

The department will measure Reconnect Storm Sewer as each location as specified in the plans, 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.0060.8002	Reconnect Storm Sewer	Each

Payment is full compensation for performing all work; removing seals, end walls and concrete collars; providing all materials; coring or sawing; and couplings, concrete collars. Any additional pipe or materials required to reconnect the storm sewer shall be considered incidental to this bid item.

## **95. Pavement Cleanup Project, Item SPV.0075.0001.**

### **A Description**

This special provision describes cleanup of dust and debris from pavements within and adjacent to the job site. Pavement Cleanup includes surveillance and reporting of all active haul routes.

### **B Materials**

#### **B.1 Pavement Cleanup**

Furnish a vacuum-type street sweeper equipped with a power broom, water spray system, and a vacuum collection system.

Use vacuum equipment with a self-contained particulate collector capable of preventing discharge from the collection bin into the atmosphere.

Use a vacuum-type sweeper as the primary sweeper, except as specified in this special provision or approved by the engineer.

### **C Construction**

#### **C.1 Surveillance**

Provide daily surveillance of active haul routes to identify if material is being tracked from the jobsite. Document the condition of the roads and all sweeping recommendations in a daily report. Submit reports to the engineer daily, including hourly metered tickets for that day's sweeping activities.

#### **C.2 Pavement Cleanup**

Keep all pavements, sidewalks, driveways, curb lanes and gutters within the project boundaries, free of dust and debris generated from all activity under the contract. Keep all pavements, sidewalks, driveways, curb lanes, and gutters adjacent to the project free of dust and debris that are caused by land disturbing, dust generating activities, as defined in the contractor's Dust Control Implementation Plan (DCIP).

Provide routine sweeping of all pavements, sidewalks, driveways, curb lanes and gutters on local-street active haul routes as defined in the DCIP or as directed by the engineer. Include the following roadways for routine sweeping:

- STH 59/National Avenue (50<sup>th</sup> Street to 43<sup>rd</sup> Street)
- STH 175/Brewers Boulevard/Miller Park Way (Greenfield Avenue to Frederick Miller Way)
- And all other roadways approved by the department

In addition to routine sweeping, conduct sweepings as the engineer directs or approves, to eliminate dust problems that might arise during off-work hours or emergencies. Provide the engineer with a contact person available at all times to respond to requests for emergency sweeping. Coordinate with engineer to

determine deadlines for responding to emergency sweeping requests and cleaning up spillage and material tracked to/from the project.

Skid steers with mechanical power brooms may only be used on sidewalks and driveways whose pavements will not support the weight of a street sweeper, unless otherwise approved by the engineer. Do not dry sweep. Ensure all broomed equipment used for sweeping has a functioning water bar.

#### **D Measurement**

The department will measure Pavement Cleanup (Project 2410-47-70) by the hour, acceptably completed.

Tickets shall include:

- Date
- Company
- Operator name
- Equipment make/model
- Routes swept
- Total hours.

Total hours shall be to the nearest 0.25 hour that work under this item was performed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0075.0001	Pavement Cleanup Project	HR

Payment is full compensation for daily surveillance; preparing and submitting the daily surveillance report with hourly metered tickets; mobilization; sweeping; and disposing of materials.

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### **96. Adjust Existing Conduit, Item SPV.0090.3001.**

#### **A Description**

This special provision describes exposing, partially removing, and manipulating the location of existing conduit to avoid conflict with traffic signal construction being done in this contract. This work shall be in accordance to the requirements of standard spec 652, the plans, standard detail drawings, and as hereinafter provided.

#### **B Materials**

Materials shall be in accordance to Section 652 of the standard specifications. Furnish split-duct conduit which matches the size of the existing conduit.

#### **C Construction**

Conduit construction shall be in accordance to Section 652 of the standard specifications and conduit manufacturer specifications.

Locate all underground traffic signal and street lighting conduit by utility locate, excavation or other non-destructive means.

Expose the outside of the existing conduit. Remove the existing conduit without disturbing the existing signal and lighting cable inside. Realign the cables to avoid the new concrete base for the monotube.

Install split duct around existing traffic signal cable per manufacturer specifications. Stagger split duct joints – the top and bottom sections of split duct shall not have the same joint. Connect top and bottom split duct pieces together with straps a maximum 1-foot from split duct joints. Place a length of tape around both sections of the split duct to completely cover each butted joint. Install straps so that the maximum distance between straps is 5-feet. Install a split duct fitting or material at the connection to the existing conduit to provide a snug fit between existing conduit and split duct conduit. Tape both ends of the installation. Tamp backfill into place around the adjusted conduit.

**D Measurement**

The department will measure Adjust Existing Conduit by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.3001	Adjust Existing Conduit	LF

Payment is full compensation for locating the existing conduit, excavating and backfilling; for furnishing backfill material; for adjusting existing cable; for sawing and removing existing signal conduit; for furnishing and installing split duct conduit; for properly disposing of surplus materials; and for coordination with the City of West Allis electrician prior to and during work.

## **ADDITIONAL SPECIAL PROVISION 4**

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.

### **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 is not allowed to withhold 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.

### **Acceptance and Final Payment**

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.

## Additional Special Provision 6 (ASP-6)

### Modifications to the standard specifications

*Make the following revisions to the standard specifications.*

#### **107 Legal Relations and Responsibility to the Public**

Add subsection 107.27 effective with the November 2024 letting.

#### **107.27 Drones or Unmanned Aircraft Systems (UAS)**

##### **107.27.1 Licensing and Compliance**

- (1) Obtain and possess the necessary Federal Aviation Administration (FAA) licenses and certifications to operate drones commercially (<https://www.faa.gov/uas>).
- (2) Comply with all FAA regulations, airspace restrictions, and local laws. Operators of small drones that are less than 55 pounds for work or business must follow all requirements as listed in Title 14, Chapter 1, Subchapter F, Part 107 of the Code of Federal Regulations (14 CFR) and obtain a remote pilot certificate ([https://www.faa.gov/uas/commercial\\_operators](https://www.faa.gov/uas/commercial_operators)).
- (3) Comply with Wisconsin State Statute 942.10. Limit operations to the specific approved purpose and employ reasonable precautions to avoid capturing images of the public except those that are incidental to the project.
- (4) Provide copies of waivers required for specific project conditions to the engineer prior to any flight.

##### **107.27.2 Flight Approval, Safety, and Incident Reporting**

- (1) Submit information in 107.27.2(2) to obtain written drone flight approval from the engineer at least 3 business days prior to operating a drone within the right-of-way. Do not operate a drone within the right-of-way unless approved by the engineer.
- (2) Drone flight application for review and approval must include:
  - UAS pilot information and qualifications, images of certification
  - UAS drone information and FAA tail numbers
  - Max/ Min allowable flight parameters (weather)
  - Specifics of flight mission: capture scope
  - Estimated flight duration
  - Pre-flight checklist
  - Site-specific parameters
  - Notification protocols - Federal/Local/Agency/Owner/Responsible in Charge
  - Confirmation and verification of approved operators and hardware
  - Flight plan map diagram (including launch and landing location)
  - FAA-Airspace flight map classification and confirmation with graphics
  - UAS incident management protocol
- (3) If contractor is requesting multiple types of the same flight, a simplified request can be submitted listing weekly flight plan.
- (4) Safety measures must include but are not limited to:
  - Regular training and updates on drone regulations are required and must be provided upon request.
  - Drones must be operated in accordance with safety guidelines, including maintaining a safe distance from people, structures, vehicles, etc.
  - Conduct a pre-flight safety assessment, considering weather conditions, airspace restrictions, and potential hazards.
  - Emergency procedures (e.g., drone malfunction, loss of control) must be documented and followed.
  - All incidents must be reported to the engineer.
- (5) If the drone has an incident during flight, report the following to the engineer:
  - Incident background and details.
  - FAA (14 CFR 107.9) and NTSB (49 CFR 870) notification protocol.
  - Contractor internal notification protocol.

##### **107.27.3 Insurance Requirements**

- (1) Maintain drone liability insurance with the following limits.
  1. For drones weighing 10 pounds or less, a liability policy with a minimum limit of \$1,000,000.00 is required.

2. For drones weighing more than 10 pounds and less than or equal to 20 pounds, a liability policy with a minimum limit of \$2,000,000.00 is required.
3. For drones weighing more than 20 pounds, notify engineer and department will determine appropriate liability policy coverage levels based on size, use, location, and other risk factors.

## 646 Pavement Markings

### 646.3.2.4 Black Epoxy

Replace paragraph (1) with the following effective with the November 2024 letting.

- (1) Apply black epoxy in a grooved slot directly after the white marking. Apply epoxy at a wet mil thickness of 20. Apply black aggregate at or exceeding 25 pounds per gallon of epoxy. Do not apply glass beads to black epoxy.

## ERRATA

### 204.3.1.3 Salvaging or Disposal of Materials

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Dispose of concrete, stone, brick, and other material not designated for salvage as specified for disposing of materials under 203.3.5.

### 204.3.2.3 Removing Buildings

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Buildings removed and materials resulting from building removal become the contractor's property unless the contract specifies otherwise. Dispose of unclaimed and removed material as specified for disposing of materials in 203.3.5.

### 335.3.2 Rubblizing

Replace paragraph (6) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (6) Remove reinforcing steel exposed at the surface by cutting below the surface and disposing of the steel as specified in 203.3.5. Do not remove unexposed reinforcing steel.

### 335.3.3 Compacting

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Remove loose asphaltic patching material, joint fillers, expansion material, or other similar materials from the compacted surface. Also remove pavement or patches that have a maximum dimension greater than or equal to 6 inches that are either not well seated or projecting more than one inch. Dispose of removed material as specified in 203.3.5.

### 526.3.4 Construction, Backfilling, Inspection and Maintenance

Replace paragraph (3) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (3) Maintain temporary structures and approaches in place until no longer needed. Unless the engineer directs otherwise, completely remove and dispose of as specified in 203.3.5. Contractor-furnished materials remain the contractor's property upon removal.

### 602.3.6 Concrete Rumble Strips

Replace paragraph (5) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (5) At the end of each workday, move equipment and material out of the clear zone and sweep or vacuum the traveled way pavement and shoulder areas. Sweep away or vacuum up milling debris before opening adjacent lanes to traffic. Dispose of waste material as specified in 203.3.5; do not place on the finished shoulder surface.

### 604.2 Materials

Replace paragraph (1) with the following information to remove line and link for crushed aggregate effective with the November 2024 letting. The crushed aggregate gradation information for slope paving is now found in 604.2(3).

- (1) Furnish materials conforming to the following:

Water.....	501.2
Select crushed material.....	312.2
Concrete.....	501
Reinforcement.....	505
Expansion joint filler .....	415.2.3
Asphaltic materials .....	455.2



## **ADDITIONAL SPECIAL PROVISION 7**

### **A. Reporting 1<sup>st</sup> 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. DBE firms must enter all payments to DBE and non-DBE firms regardless of tier.
6. 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).
7. All agreements made by a contractor shall include the provisions in A(1), (2), (3), (4), (5), and (6), and shall be binding on all first tier subcontractor relationships, all contractors and subcontractors utilizing DBE firms on the project, and all payments from DBE firms.

### **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](mailto: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) for projects with a LET date on or before December 2024 and AASHTOWare Project Civil Rights and Labor (AWP CRL) for projects with a LET date on or after January 2025 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 or AWP CRL. 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 or AWP CRL 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, via the online AWP Knowledge Base, or by telephone. to schedule CRCS specific training. The AWP Knowledge Base is at: <https://awpkb.dot.wi.gov/>
- (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) For firms wishing to export payroll/labor data from their computer system, have their payroll coordinator contact:
  - For CRCS: Paul Ndon at [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov). Information about exporting payroll/labor data. Not every contractor's payroll system can produce 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>
  - For AWP CRL: Contact AWP Support at [awpsupport@dot.wi.gov](mailto:awpsupport@dot.wi.gov). Additional information can be found in the AWP Knowledge Base at <https://awpkb.dot.wi.gov/Content/crl/Payrolls-PrimesAndSubs/PayrollXMLFileCreationProcess.htm>

## 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).

## BUY AMERICA PROVISION

Buy America (as documented in [88 FR 57750 \(2 CFR part 184 and 200\)](#) from the Office of Management and Budget: [Federal Register: Guidance for Grants and Agreements](#) ) shall be domestic products and permanently incorporated in this project as classified in the following three categories, and as noted in the Construction and Materials Manual (CMM):

### 1. Iron and Steel

All iron and steel manufacturing and coating processes (from the initial melting stage through the application of coatings) 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 the iron and steel manufacturing and coating processes Buy America 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.

### 2. Manufactured Product

All manufactured products (as defined in CMM 228.5) are covered under a previous waiver from 1983 and are currently exempt from Buy America.

### 3. Construction Material

All construction materials (as defined in [88 FR 57750 \(2 CFR part 184 and 200\)](#) and as referenced in CMM 228.5) must comply with Buy America. All manufacturing process of construction materials must occur in the United States.

[88 FR 55817 \(DOT-OST-2022-0124\)](#) allows a limited waiver of Buy America requirements for de minimis costs and small grants.

- The Total value of the non-compliant products is no more than the lesser of \$1,000,000 or 5% of total applicable costs for the project<sup>1</sup>; or
- The total amount of Federal financial assistance applied to the project, through awards or subaward, is below \$500,000<sup>2</sup>

The contractor shall take actions and provide documentation conforming to CMM 228.5 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 DT4567 that all iron and steel, manufactured products, and construction materials conform to this Buy America provision.

Form DT4567 is available at: <https://wisconsindot.gov/Documents/formdocs/dt4567.docx>

Attach a list of iron or steel and construction material exemptions and their associated costs to the certification form using the Buy America Exemption Tracking Tool, available at:

<https://wisconsindot.gov/hccidocs/contracting-info/buy-america-exemption-tracking-tool.xlsx>

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<sup>1</sup> The de minimis public interest waiver does not apply to iron and steel subject to the requirements of 23 U.S.C. 313 on financial assistant administered by FHWA. The de minimis threshold in 23 CFR 635.410(b)(4) continues to apply for iron and steel.

<sup>2</sup> The small grant portion of the waiver does not apply to iron, steel, and manufactured goods subject to the requirements of 49 U.S.C. 22905(a).



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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
0002	201.0220 Grubbing	59.000 ID	_____.	_____.
0004	204.0100 Removing Concrete Pavement	1,010.000 SY	_____.	_____.
0006	204.0110 Removing Asphaltic Surface	44.000 SY	_____.	_____.
0008	204.0150 Removing Curb & Gutter	1,824.000 LF	_____.	_____.
0010	204.0155 Removing Concrete Sidewalk	1,242.000 SY	_____.	_____.
0012	204.0195 Removing Concrete Bases	42.000 EACH	_____.	_____.
0014	204.0210 Removing Manholes	1.000 EACH	_____.	_____.
0016	204.0215 Removing Catch Basins	11.000 EACH	_____.	_____.
0018	204.0245 Removing Storm Sewer (size) 0001. 12-Inch	65.000 LF	_____.	_____.
0020	204.9060.S Removing (item description) 0001. Removing Village Banners	8.000 EACH	_____.	_____.
0022	204.9060.S Removing (item description) 1001. Removing Distribution Center	1.000 EACH	_____.	_____.
0024	204.9060.S Removing (item description) 1002. Removing Lighting Units	7.000 EACH	_____.	_____.
0026	204.9060.S Removing (item description) 3010. Traffic Signals STH 59 (W. Greenfield Ave) & 70th St	1.000 EACH	_____.	_____.
0028	204.9060.S Removing (item description) 3020. Traffic Signals STH 59 (W. Greenfield Ave) & STH 59 (W. National Ave)	1.000 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
0030	204.9060.S Removing (item description) 3030. Traffic Signals STH 59 (W. National Ave) & S. 48th St	1.000 EACH	_____.	_____.
0032	204.9060.S Removing (item description) 3031. Loop Detector Wire & Lead-In Cable STH 59 & S. 48th St	1.000 EACH	_____.	_____.
0034	204.9060.S Removing (item description) 3040. Removing Traffic Signals STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0036	204.9060.S Removing (item description) 3041. Removing Loop Detector Wire and Lead-In Cable STH 59 & 47th St	1.000 EACH	_____.	_____.
0038	204.9060.S Removing (item description) 3050. Removing Traffic Signals STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0040	204.9060.S Removing (item description) 3051. Removing Loop Detector Wire And Lead-In Cable STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0042	205.0100 Excavation Common	1,890.000 CY	_____.	_____.
0044	211.0201 Prepare Foundation for Concrete Pavement (project) 1000. 2410-47-70	1.000 EACH	_____.	_____.
0046	211.0500 Prepare Foundation for Base Aggregate	18.000 STA	_____.	_____.
0048	213.0100 Finishing Roadway (project) 1000. 2410-47-70	1.000 EACH	_____.	_____.
0050	305.0120 Base Aggregate Dense 1 1/4-Inch	1,480.000 TON	_____.	_____.
0052	415.0090 Concrete Pavement 9-Inch	2,264.000 SY	_____.	_____.



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Contract Items

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0054	416.0610 Drilled Tie Bars	1,430.000 EACH	_____.	_____.
0056	416.0620 Drilled Dowel Bars	462.000 EACH	_____.	_____.
0058	416.1715 Concrete Pavement Repair SHES	300.000 SY	_____.	_____.
0060	416.1720 Concrete Pavement Replacement	26.000 SY	_____.	_____.
0062	416.1725 Concrete Pavement Replacement SHES	1,015.000 SY	_____.	_____.
0064	495.1000.S Cold Patch	20.000 TON	_____.	_____.
0066	520.8000 Concrete Collars for Pipe	2.000 EACH	_____.	_____.
0068	601.0319 Concrete Curb & Gutter 19-Inch	786.000 LF	_____.	_____.
0070	601.0331 Concrete Curb & Gutter 31-Inch	1,840.000 LF	_____.	_____.
0072	601.0600 Concrete Curb Pedestrian	128.000 LF	_____.	_____.
0074	602.0410 Concrete Sidewalk 5-Inch	12,074.000 SF	_____.	_____.
0076	602.0505 Curb Ramp Detectable Warning Field Yellow	276.000 SF	_____.	_____.
0078	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	29.000 SF	_____.	_____.
0080	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	121.000 LF	_____.	_____.
0082	611.0420 Reconstructing Manholes	3.000 EACH	_____.	_____.





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Contract Items

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0084	611.0530 Manhole Covers Type J	1.000 EACH	_____.	_____.
0086	611.0535 Manhole Covers Type J-Special	6.000 EACH	_____.	_____.
0088	611.0624 Inlet Covers Type H	7.000 EACH	_____.	_____.
0090	611.0639 Inlet Covers Type H-S	3.000 EACH	_____.	_____.
0092	611.0651 Inlet Covers Type S	1.000 EACH	_____.	_____.
0094	611.0666 Inlet Covers Type Z	2.000 EACH	_____.	_____.
0096	611.1003 Catch Basins 3-FT Diameter	2.000 EACH	_____.	_____.
0098	611.1005 Catch Basins 5-FT Diameter	1.000 EACH	_____.	_____.
0100	611.1230 Catch Basins 2x3-FT	9.000 EACH	_____.	_____.
0102	611.2003 Manholes 3-FT Diameter	3.000 EACH	_____.	_____.
0104	611.2004 Manholes 4-FT Diameter	2.000 EACH	_____.	_____.
0106	611.8105 Adjusting Catch Basin Covers	1.000 EACH	_____.	_____.
0108	611.8110 Adjusting Manhole Covers	1.000 EACH	_____.	_____.
0110	616.0700.S Fence Safety	477.000 LF	_____.	_____.
0112	619.1000 Mobilization	1.000 EACH	_____.	_____.
0114	620.0300 Concrete Median Sloped Nose	414.000 SF	_____.	_____.



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Contract Items

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0116	624.0100 Water	149.000 MGAL	_____.	_____.
0118	625.0100 Topsoil	1,507.000 SY	_____.	_____.
0120	627.0200 Mulching	992.000 SY	_____.	_____.
0122	628.1504 Silt Fence	516.000 LF	_____.	_____.
0124	628.1520 Silt Fence Maintenance	516.000 LF	_____.	_____.
0126	628.1905 Mobilizations Erosion Control	3.000 EACH	_____.	_____.
0128	628.1910 Mobilizations Emergency Erosion Control	5.000 EACH	_____.	_____.
0130	628.7010 Inlet Protection Type B	2.000 EACH	_____.	_____.
0132	628.7015 Inlet Protection Type C	51.000 EACH	_____.	_____.
0134	628.7020 Inlet Protection Type D	4.000 EACH	_____.	_____.
0136	629.0210 Fertilizer Type B	1.000 CWT	_____.	_____.
0138	630.0200 Seeding Temporary	27.000 LB	_____.	_____.
0140	630.0500 Seed Water	22.000 MGAL	_____.	_____.
0142	631.0300 Sod Water	91.000 MGAL	_____.	_____.
0144	631.1000 Sod Lawn	1,952.000 SY	_____.	_____.
0146	634.0614 Posts Wood 4x6-Inch X 14-FT	3.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0148	637.2210 Signs Type II Reflective H	481.500 SF	_____.	_____.
0150	637.2215 Signs Type II Reflective H Folding	100.080 SF	_____.	_____.
0152	637.2230 Signs Type II Reflective F	34.250 SF	_____.	_____.
0154	638.2102 Moving Signs Type II	10.000 EACH	_____.	_____.
0156	638.2602 Removing Signs Type II	96.000 EACH	_____.	_____.
0158	638.3000 Removing Small Sign Supports	14.000 EACH	_____.	_____.
0160	643.0300 Traffic Control Drums	33,509.000 DAY	_____.	_____.
0162	643.0420 Traffic Control Barricades Type III	1,886.000 DAY	_____.	_____.
0164	643.0500 Traffic Control Flexible Tubular Marker Posts	15.000 EACH	_____.	_____.
0166	643.0600 Traffic Control Flexible Tubular Marker Bases	15.000 EACH	_____.	_____.
0168	643.0705 Traffic Control Warning Lights Type A	3,772.000 DAY	_____.	_____.
0170	643.0715 Traffic Control Warning Lights Type C	4,866.000 DAY	_____.	_____.
0172	643.0810.S Connected Arrow Board	176.000 DAY	_____.	_____.
0174	643.0900 Traffic Control Signs	8,643.000 DAY	_____.	_____.
0176	643.0910 Traffic Control Covering Signs Type I	2.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0178	643.1000 Traffic Control Signs Fixed Message	178.000 SF	_____.	_____.
0180	643.1050 Traffic Control Signs PCMS	112.000 DAY	_____.	_____.
0182	643.1070 Traffic Control Cones 42-Inch	540.000 DAY	_____.	_____.
0184	643.1220.S Connected Work Zone Start and End Location Markers	704.000 DAY	_____.	_____.
0186	643.3150 Temporary Marking Line Removable Tape 4-Inch	6,973.000 LF	_____.	_____.
0188	643.3180 Temporary Marking Line Removable Tape 6-Inch	1,870.000 LF	_____.	_____.
0190	643.3250 Temporary Marking Line Removable Tape 8-Inch	1,634.000 LF	_____.	_____.
0192	643.3550 Temporary Marking Arrow Removable Tape	1.000 EACH	_____.	_____.
0194	643.3650 Temporary Marking Word Removable Tape	1.000 EACH	_____.	_____.
0196	643.3960 Temporary Marking Removable Mask Out Tape 6-Inch	2,247.000 LF	_____.	_____.
0198	643.4100 Traffic Control Interim Lane Closure	79.000 EACH	_____.	_____.
0200	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0202	644.1430 Temporary Pedestrian Surface Plate	360.000 SF	_____.	_____.
0204	644.1601 Temporary Pedestrian Curb Ramp	95.000 DAY	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0206	644.1605 Temporary Pedestrian Detectable Warning Field	163.000 SF	_____.	_____.
0208	644.1810 Temporary Pedestrian Barricade	1,755.000 LF	_____.	_____.
0210	644.1900.S Temporary Audible Message Devices	1,023.000 DAY	_____.	_____.
0212	646.1020 Marking Line Epoxy 4-Inch	24,068.000 LF	_____.	_____.
0214	646.2025 Marking Line Grooved Black Epoxy 6-Inch	305.000 LF	_____.	_____.
0216	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	1,410.000 LF	_____.	_____.
0218	646.3020 Marking Line Epoxy 8-Inch	3,206.000 LF	_____.	_____.
0220	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	602.000 LF	_____.	_____.
0222	646.5020 Marking Arrow Epoxy	83.000 EACH	_____.	_____.
0224	646.5120 Marking Word Epoxy	23.000 EACH	_____.	_____.
0226	646.5220 Marking Symbol Epoxy	49.000 EACH	_____.	_____.
0228	646.6120 Marking Stop Line Epoxy 18-Inch	940.000 LF	_____.	_____.
0230	646.6220 Marking Yield Line Epoxy 18-Inch	30.000 EACH	_____.	_____.
0232	646.7120 Marking Diagonal Epoxy 12-Inch	363.000 LF	_____.	_____.
0234	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	484.000 LF	_____.	_____.



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Contract Items

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0236	646.7520 Marking Crosswalk Epoxy Block Style 24-Inch	5,198.000 LF	_____.	_____.
0238	646.8120 Marking Curb Epoxy	231.000 LF	_____.	_____.
0240	646.8220 Marking Island Nose Epoxy	7.000 EACH	_____.	_____.
0242	646.9000 Marking Removal Line 4-Inch	12,709.000 LF	_____.	_____.
0244	646.9002 Marking Removal Line 6-Inch	5,099.000 LF	_____.	_____.
0246	646.9100 Marking Removal Line 8-Inch	2,623.000 LF	_____.	_____.
0248	646.9200 Marking Removal Line Wide	1,005.000 LF	_____.	_____.
0250	646.9300 Marking Removal Special Marking	45.000 EACH	_____.	_____.
0252	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	2,500.000 LF	_____.	_____.
0254	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	2,031.000 LF	_____.	_____.
0256	652.0325 Conduit Rigid Nonmetallic Schedule 80 2-Inch	142.000 LF	_____.	_____.
0258	652.0605 Conduit Special 2-Inch	467.000 LF	_____.	_____.
0260	652.0615 Conduit Special 3-Inch	1,854.000 LF	_____.	_____.
0262	653.0140 Pull Boxes Steel 24x42-Inch	37.000 EACH	_____.	_____.
0264	653.0145 Pull Boxes Steel 24x48-Inch	16.000 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
0266	653.0905 Removing Pull Boxes	40.000 EACH	_____.	_____.
0268	654.0101 Concrete Bases Type 1	18.000 EACH	_____.	_____.
0270	654.0102 Concrete Bases Type 2	5.000 EACH	_____.	_____.
0272	654.0105 Concrete Bases Type 5	6.000 EACH	_____.	_____.
0274	654.0110 Concrete Bases Type 10	7.000 EACH	_____.	_____.
0276	654.0113 Concrete Bases Type 13	1.000 EACH	_____.	_____.
0278	654.0120 Concrete Bases Type 10-Special	5.000 EACH	_____.	_____.
0280	654.0217 Concrete Control Cabinet Bases Type 9 Special	3.000 EACH	_____.	_____.
0282	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.	_____.
0284	655.0230 Cable Traffic Signal 5-14 AWG	5,234.000 LF	_____.	_____.
0286	655.0240 Cable Traffic Signal 7-14 AWG	2,878.000 LF	_____.	_____.
0288	655.0260 Cable Traffic Signal 12-14 AWG	7,353.000 LF	_____.	_____.
0290	655.0270 Cable Traffic Signal 15-14 AWG	1,366.000 LF	_____.	_____.
0292	655.0320 Cable Type UF 2-10 AWG Grounded	2,631.000 LF	_____.	_____.
0294	655.0515 Electrical Wire Traffic Signals 10 AWG	8,227.000 LF	_____.	_____.



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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
0296	655.0610 Electrical Wire Lighting 12 AWG	2,205.000 LF	_____.	_____.
0298	655.0625 Electrical Wire Lighting 6 AWG	9,135.000 LF	_____.	_____.
0300	655.0700 Loop Detector Lead In Cable	396.000 LF	_____.	_____.
0302	655.0900 Traffic Signal EVP Detector Cable	2,467.000 LF	_____.	_____.
0304	656.0201 Electrical Service Meter Breaker Pedestal (location) 1000. W National Avenue	1.000 EACH	_____.	_____.
0306	656.0201 Electrical Service Meter Breaker Pedestal (location) 3030. STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0308	656.0201 Electrical Service Meter Breaker Pedestal (location) 3040. STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0310	656.0201 Electrical Service Meter Breaker Pedestal (location) 3050. STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0312	657.0100 Pedestal Bases	23.000 EACH	_____.	_____.
0314	657.0310 Poles Type 3	6.000 EACH	_____.	_____.
0316	657.0322 Poles Type 5-Aluminum	6.000 EACH	_____.	_____.
0318	657.0405 Traffic Signal Standards Aluminum 3.5- FT	1.000 EACH	_____.	_____.
0320	657.0420 Traffic Signal Standards Aluminum 13-FT	13.000 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
0322	657.0425 Traffic Signal Standards Aluminum 15-FT	2.000 EACH	_____.	_____.
0324	657.0430 Traffic Signal Standards Aluminum 10-FT	7.000 EACH	_____.	_____.
0326	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	6.000 EACH	_____.	_____.
0328	657.0615 Luminaire Arms Single Member 4 1/2- Inch Clamp 8-FT	8.000 EACH	_____.	_____.
0330	658.0173 Traffic Signal Face 3S 12-Inch	69.000 EACH	_____.	_____.
0332	658.0175 Traffic Signal Face 5S 12-Inch	2.000 EACH	_____.	_____.
0334	658.0416 Pedestrian Signal Face 16-Inch	44.000 EACH	_____.	_____.
0336	658.5070 Signal Mounting Hardware (location) 3010. STH 59 & S. 70TH ST	1.000 EACH	_____.	_____.
0338	658.5070 Signal Mounting Hardware (location) 3020. STH 59 (Greenfield Ave) & STH 59 (W. National Ave)	1.000 EACH	_____.	_____.
0340	658.5070 Signal Mounting Hardware (location) 3030. STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0342	658.5070 Signal Mounting Hardware (location) 3040. STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0344	658.5070 Signal Mounting Hardware (location) 3050. STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0346	659.1125 Luminaires Utility LED C	23.000 EACH	_____.	_____.
0348	659.2230 Lighting Control Cabinets 240/480 30- Inch	1.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0350	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	132.000 EACH	_____.	_____.
0352	661.0201 Temporary Traffic Signals for Intersections (location) 3040. STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0354	661.0201 Temporary Traffic Signals for Intersections (location) 3050. STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0356	661.0300 Generators	4.000 DAY	_____.	_____.
0358	670.0101 Field System Integrator	2.000 EACH	_____.	_____.
0360	670.0201 ITS Documentation	2.000 EACH	_____.	_____.
0362	674.0300 Remove Cable	2,135.000 LF	_____.	_____.
0364	674.0400 Reinstall Cable	485.000 LF	_____.	_____.
0366	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	2,715.000 LF	_____.	_____.
0368	678.0300 Fiber Optic Splice	4.000 EACH	_____.	_____.
0370	678.0400 Fiber Optic Termination	12.000 EACH	_____.	_____.
0372	678.0501 Communication System Testing	2.000 EACH	_____.	_____.
0374	678.0800 Install Cellular Modems	1.000 EACH	_____.	_____.
0376	690.0150 Sawing Asphalt	24.000 LF	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0378	690.0250 Sawing Concrete	5,605.000 LF	_____.	_____.
0380	715.0720 Incentive Compressive Strength Concrete Pavement	701.100 DOL	1.00000	701.10
0382	SPV.0035 Special 0001. Roadway Embankment	101.000 CY	_____.	_____.
0384	SPV.0060 Special 0001. Curb Ramp Grading, Shaping, & Finishing	25.000 EACH	_____.	_____.
0386	SPV.0060 Special 0002. Utility Line Opening	13.000 EACH	_____.	_____.
0388	SPV.0060 Special 0003. Field Facilities Office Space	1.000 EACH	_____.	_____.
0390	SPV.0060 Special 0004. Traffic Control Close-Open Freeway Entrance Ramp	10.000 EACH	_____.	_____.
0392	SPV.0060 Special 0005. Survey Project	1.000 EACH	_____.	_____.
0394	SPV.0060 Special 0006. Round Steel Sign Post System	19.000 EACH	_____.	_____.
0396	SPV.0060 Special 0007. Street Name Sign Mounting Hardware on Mast Arm	4.000 EACH	_____.	_____.
0398	SPV.0060 Special 1000. Temporary Lighting System	1.000 EACH	_____.	_____.
0400	SPV.0060 Special 1001. Maintenance Of Lighting Systems	1.000 EACH	_____.	_____.
0402	SPV.0060 Special 2000. Enter Existing Fiber Optic Splice Enclosure	2.000 EACH	_____.	_____.
0404	SPV.0060 Special 2001. Store Cable	1.000 EACH	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0406	SPV.0060 Special 2002. Remove Cellular Modern	1.000 EACH	_____.	_____.
0408	SPV.0060 Special 3001. Install Poles Type 9	2.000 EACH	_____.	_____.
0410	SPV.0060 Special 3002. Install Poles Type 9 Special	1.000 EACH	_____.	_____.
0412	SPV.0060 Special 3003. Install Poles Type 9-Over Height	2.000 EACH	_____.	_____.
0414	SPV.0060 Special 3004. Install Poles Type 10	3.000 EACH	_____.	_____.
0416	SPV.0060 Special 3005. Install Poles Type 10 Special	4.000 EACH	_____.	_____.
0418	SPV.0060 Special 3006. Install Monotube Arms 15- FT	2.000 EACH	_____.	_____.
0420	SPV.0060 Special 3007. Install Monotube Arms 20- FT	2.000 EACH	_____.	_____.
0422	SPV.0060 Special 3008. Install Monotube Arms 25- FT	1.000 EACH	_____.	_____.
0424	SPV.0060 Special 3009. Install Monotube Arms 30- FT	2.000 EACH	_____.	_____.
0426	SPV.0060 Special 3010. Install Monotube Arms 40- FT-Special	3.000 EACH	_____.	_____.
0428	SPV.0060 Special 3011. Install Monotube Arms 45- FT-Special	2.000 EACH	_____.	_____.
0430	SPV.0060 Special 3012. Install Luminaire Arms STEEL 15-FT	9.000 EACH	_____.	_____.



## Proposal Schedule of Items

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Proposal ID: 20250513011 Project(s): 2410-47-70

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
0432	SPV.0060 Special 3013. Trnspt & Install State Furn Traffic Signal Cab STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0434	SPV.0060 Special 3014. Trnspt & Install State Furn Traffic Signal Cab STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0436	SPV.0060 Special 3015. Trnspt & Install State Furn Traffic Signal Cab STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0438	SPV.0060 Special 3016. Trnspt & Install State Furn EVP Heads & Con Light STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0440	SPV.0060 Special 3018. Trnspt Traffic Signals & Inter Lighting Materials STH 59 & STH 59	1.000 EACH	_____.	_____.
0442	SPV.0060 Special 3019. Trnspt Traffic Signals & Inter Lighting Materials STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0444	SPV.0060 Special 3020. Trnspt Traffic Signals & Inter Lighting Materials STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0446	SPV.0060 Special 3021. Trnspt Traffic Signals & Inter Lighting Materials STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0448	SPV.0060 Special 3022. Trnspt & Install State Furn Accessible Ped Sig System STH 59 & S. 70TH ST	1.000 EACH	_____.	_____.
0450	SPV.0060 Special 3023. Trnspt & Install State Furn Accessible Ped Sig System, STH 59 & STH 59	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

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Proposal ID: 20250513011 Project(s): 2410-47-70

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
0452	SPV.0060 Special 3024. Trnspt & Install State Furn Accessible Ped Sig System STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0454	SPV.0060 Special 3025. Trnspt & Install State Furn Accessible Ped Sig System STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0456	SPV.0060 Special 3026. Trnspt & Install State Furn Accessible Ped Sig System STH 59 & Miller Park	1.000 EACH	_____.	_____.
0458	SPV.0060 Special 3027. Trnspt & Install State Furn Video Detection System STH 59 & STH 59	1.000 EACH	_____.	_____.
0460	SPV.0060 Special 3028. Trnspt & Install State Furn Video Detection System STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0462	SPV.0060 Special 3029. Trnspt & Install State Furn Video Detection System STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0464	SPV.0060 Special 3030. Trnspt & Install State Furn Video Detection System STH 59 & Miller Park	1.000 EACH	_____.	_____.
0466	SPV.0060 Special 3031. Temporary EVP System STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0468	SPV.0060 Special 3032. Trnspt & Install State Furn Radio STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0470	SPV.0060 Special 3033. Trnspt & Install State Furn Radio STH 59 & 47TH	1.000 EACH	_____.	_____.
0472	SPV.0060 Special 3034. Trnspt & Install State Furn Radio STH 59 & Miller Park Way	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

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Proposal ID: 20250513011 Project(s): 2410-47-70

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
0474	SPV.0060 Special 3035. Store Existing Communications Cable STH 59 & Miller Park Way	1.000 EACH	_____.	_____.
0476	SPV.0060 Special 3036. Geometrically Programmed Louvers, STH 59 & STH 59	18.000 EACH	_____.	_____.
0478	SPV.0060 Special 3037. Trnspt & Install State Furn Transformer Base Breakaway 11-1/2" Bolt Circle	6.000 EACH	_____.	_____.
0480	SPV.0060 Special 3038. Concrete Bases Type 1 Spread Footing	1.000 EACH	_____.	_____.
0482	SPV.0060 Special 3039. Traffic Signal Controller Programming	2.000 EACH	_____.	_____.
0484	SPV.0060 Special 3040. Install Monotube Arms 55-FT	1.000 EACH	_____.	_____.
0486	SPV.0060 Special 3042. Trnspt & Install State Furn EVP Heads & Con Light STH 59 & S. 48TH ST	1.000 EACH	_____.	_____.
0488	SPV.0060 Special 3043. Trnspt & Install State Furn EVP Heads & Con Light STH 59 & S. 47TH ST	1.000 EACH	_____.	_____.
0490	SPV.0060 Special 3044. Install Poles Type 13	1.000 EACH	_____.	_____.
0492	SPV.0060 Special 5001. Water Main Protection	4.000 EACH	_____.	_____.
0494	SPV.0060 Special 5002. Adjusting Water Valve Boxes-Milwaukee	3.000 EACH	_____.	_____.
0496	SPV.0060 Special 5003. Adjusting Water Manholes	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

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Proposal ID: 20250513011 Project(s): 2410-47-70

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
0498	SPV.0060 Special 5004. Adjusting Water Valve Boxes-Village Of West Milwaukee	4.000 EACH	_____.	_____.
0500	SPV.0060 Special 5005. Internal Sanitary Manhole Seal	1.000 EACH	_____.	_____.
0502	SPV.0060 Special 8002. Reconnect Storm Sewer	8.000 EACH	_____.	_____.
0504	SPV.0075 Special 0001. Pavement Cleanup Project	100.000 HRS	_____.	_____.
0506	SPV.0090 Special 3001. Adjust Existing Conduit	20.000 LF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.



**PLEASE ATTACH ADDENDA HERE**