

# HIGHWAY WORK PROPOSAL

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

Proposal Number: **048**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Washington	4070-00-70	N/A	Fond Du Lac Avenue; WB CTH H to WB STH 28	USH 045

## ADDENDUM REQUIRED ATTACHED AT BACK

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

Proposal Guaranty Required: \$75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: November 14, 2023 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code
Contract Completion Time November 01, 2024	<b>SAMPLE NOT FOR BIDDING PURPOSES</b>  This contract is exempt from federal oversight.
Assigned Disadvantaged Business Enterprise Goal 0%	

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

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

Subscribed and sworn to before me this date \_\_\_\_\_

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

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

\_\_\_\_\_  
(Date Commission Expires)

Notary Seal

\_\_\_\_\_  
(Bidder Signature)

\_\_\_\_\_  
(Print or Type Bidder Name)

\_\_\_\_\_  
(Bidder Title)

<b>Type of Work:</b> Excavation, Base, HMA Pavement, Curb and Gutter, Sidewalk, Storm Sewer, Signs, Pavement Marking, Traffic Signals.	<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://wisconsin.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 envelope 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)

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

\_\_\_\_\_  
(Signature of Attorney-in-Fact)

**NOTARY FOR PRINCIPAL**

**NOTARY FOR SURETY**

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Date)

State of Wisconsin )  
 ) ss.  
 \_\_\_\_\_ County )

State of Wisconsin )  
 ) ss.  
 \_\_\_\_\_ County )

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

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

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

\_\_\_\_\_  
(Signature, Notary Public, State of Wisconsin)

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

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

\_\_\_\_\_  
(Date Commission Expires)

\_\_\_\_\_  
(Date Commission Expires)

**Notary Seal**

**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)



## **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 June 29, 2023

### SPECIAL PROVISIONS

#### 1. General.

Perform the work under this construction contract for Project 4070-00-70, Fond du Lac Avenue, WB CTH H to WB STH 28, USH 45, Washington 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, 2024 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 (20230629)

#### 2. Scope of Work.

The work under this contract shall consist of removing asphaltic surface milling, concrete base patching, HMA pavement, concrete joint and crack cleaning and repair, concrete curb and gutter, concrete sidewalk, traffic signals, storm sewer, pavement marking, permanent signing and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

#### 3. Prosecution and Progress.

Begin work within 10 calendar days after the engineer issues a written notice to do so. Do not start work until July 8, 2024.

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.

Saw cut slurry, grinding or shipping waste will be collected during the process and not allowed to run, drip, or fall outside the project limits or into waterways or wetlands.

Restore roadway pavements as show in the plan at the culvert crossing within 48 hours of completion of culvert installation. Culvert installation across the roadway in resurfacing segments shall take place prior to the milling of the adjacent asphalt pavement.

Complete removing asphaltic surface milling prior to performing base patching and asphalt surface repairs.

Base patching, culvert crossings, and asphalt repairs should be complete at the end of each day, so the surface is flush, and no trenches or holes remain open during non-working hours.

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

## **Advanced Notifications**

Notify area first responders (police, fire, EMS), Washington County Sheriff's Department, area school districts and bus companies, garbage/recycling pick-up companies, and the post office two weeks in advance of the start of the project and prior to full closures.

## **Sequence of Operations**

The department anticipates that the schedule for each stage will occur as follows. This list is not all inclusive.

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

### **Stage 1** – Work consists of:

- Close and detour US 45 traffic maintaining southbound local traffic.
- Storm sewer work.
- Installation of temporary pedestrian accommodations.
- Installation of temporary signals.
- Removal and replacement of northbound sidewalk and curb ramps.
- Adjusting, cleaning, or reconstructing inlets.
- Asphalt milling (northbound lanes).
- Concrete surface partial depth milling (driveways).
- Asphaltic repair and joint and crack repair.
- Concrete and asphalt base patching.
- Adjusting, cleaning, or reconstructing manholes.
- Installation of new signal equipment and loops.
- Paving asphalt lower and upper layer (northbound lanes).

### **Stage 2** – Work consists of:

- Modification of temporary signals.
- Asphalt milling (southbound lanes).
- Concrete surface partial depth milling (driveways).
- Asphaltic repair and joint and crack repair.
- Concrete and asphalt base patching.
- Adjusting, cleaning, or reconstructing manholes.
- Installation of new signal equipment and loops.
- Paving asphalt lower and upper layer (southbound lanes).
- Asphalt milling (southbound lanes).
- Pavement marking.
- Signing.
- Final erosion control and northbound restoration.

## **Milling and HMA Resurfacing**

Echelon paving or placing the mat with a single pass to the prescribed specifications is required in Stages 1 and 2 for the driving and parking lane sections of the project. Echelon paving is to be utilized in both layers of the aforementioned section.



## **In Stream Work Restrictions**

There shall be no instream disturbance of Tributary to Milwaukee River (North Creek) as a result of construction activity under or for this contract, from March 1 to June 15, both dates inclusive, in order to avoid adverse impacts upon the spawning of fish and other aquatic organisms.

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

0036 (20090901)

## **Northern Long-eared Bat (*Myotis septentrionalis*)**

Northern long-eared bats (NLEB) 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 1 to October 31, both dates inclusive.

Contractor means and methods to remove trees will not allowed. If it is determined that 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. Traffic.**

### **General**

Complete all work as shown in the traffic control plans. All variations from the traffic control plans shall be approved in writing at least 48 hours prior to any changes. Any changes to the traffic control plans must be approved by the engineer.

Notify the engineer, Wisconsin State Patrol, Washington County Sheriff Department, and local fire departments 48 hours prior to all traffic control changes.

All detour signing shall be placed and operating prior to detouring US 45 traffic. Install programmable changeable message signs (PCMS) 7 days prior to the start of the detour to alert drivers of upcoming traffic changes.

Use flaggers, signs, and barricades as necessary to safeguard and direct traffic at all locations where construction operations may interfere with or restrict local traffic.

Additional flaggers, signs, and barricades should be used at intersections to direct traffic.

No two consecutive intersections shall be closed at the same time. Alternate intersections shall remain open for local traffic and pedestrian accommodations.

Maintain emergency vehicle access at all times within the project limits.

Contractor shall coordinate access changes and restrictions to all driveways in advance of such restrictions. Contractor shall restore access changes and restrictions immediately upon completion of the construction operations that require the closure. Contractor shall notify property owners with limited access 48 hours in advance of restriction.

Provide temporary pedestrian accommodations as detailed in the plans. The temporary cross walks shall be according to the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and maintained by the contractor to be free from mud, sand, and other debris.

## Sequencing/Staging

Close and detour USH 45 through traffic. Maintain one southbound lane for local traffic only for all stages as shown on the plans.

## 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>
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

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

stp-108-057 (20160113)

**Local Traffic** shall always be maintained within the roadway closed to through traffic. The following requirements shall be met unless approved by the engineer in writing:

- Maintain one 11-foot lane as a minimum or as directed by the plans in the southbound direction.
- Flaggers shall be used when work operations interfere with traffic.
- Acceptable driving surfaces include 6 inches or more of compacted and graded base aggregate dense, asphaltic surface and permanent HMA pavement.
- Do not close access to sideroads unless allowed by the contract or the engineer approves.

## 5. Holiday and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 45 (Fond du Lac Avenue) 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 Friday, August 30, 2024 to 6:00 AM Tuesday, September 3, 2024 for Labor Day.

Kewaskum Softball Tournament:

Do not perform work on, nor haul materials of any kind along or across any portion of the highway within the project limits from 7:00 AM to 10:00 PM on Saturday, July 13, 2024.

stp-107-005 (20210113)

**6. Utilities.**

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

stp-107-065 (20080501)

There are utility facilities within the construction limits of this project. Additional detailed information regarding the location of discontinued, relocated, and/or removed utility facilities is available in the work plan provided by each utility company and/or on any permits issued to them. These documents and/or additional detailed information regarding the location of utility facilities is available at the region WisDOT office during normal working hours.

Bidders are advised to contact each utility company listed in the plans prior to preparing their bids to obtain current information on the status of any utility work within the project work limits.

Coordinate construction activities with a call to Diggers Hotline and/or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground and overhead facilities.

The following utility companies have facilities within the project area:

**AT&T Wisconsin – Communication Line** has existing facilities within the project area. No conflicts or adjustments are anticipated within the construction limits.

**Everstream – Communication Line** has existing facilities within the project area. No conflicts or adjustments are anticipated within the construction limits.

**Frontier Communications of WI LLC – Communication Line** has existing facilities within the project area. No conflicts or adjustments are anticipated within the construction limits.

**Kewaskum Water Department – Water**

Village of Kewaskum has facilities within the projects that may require adjustments during construction. Water valves will be adjusted by the Village of Kewaskum at the following locations during construction.

STATION	OFFSET		KEG Notes	STATION	OFFSET		KEG Notes
328+51.65	8.16	RT	WV, TBA	344+99.12	28.67	LT	WV, TBA
331+38.03	8.74	RT	WV, TBA	345+10.87	16.83	RT	WV, TBA
331+69.07	32.20	RT	WV, TBA	346+43.25	16.25	RT	WV, TBA
331+84.21	13.35	RT	WV, TBA	346+50.30	23.19	RT	WV, TBA
334+21.75	17.19	RT	WV, TBA	346+86.67	15.99	RT	WV, TBA
334+59.23	33.45	RT	WV, TBA	349+47.03	17.27	RT	WV, TBA
334+70.46	17.19	RT	WV, TBA	349+95.79	33.55	RT	WV, TBA
337+16.85	17.35	RT	WV, TBA	350+16.14	18.24	RT	WV, TBA
337+35.99	32.36	RT	WV, TBA	350+71.68	18.12	RT	WV, TBA
337+74.44	17.38	RT	WV, TBA	351+13.61	32.79	LT	WV, TBA
342+82.82	17.62	RT	WV, TBA	351+27.19	18.00	RT	WV, TBA
343+48.80	17.47	RT	WV, TBA	355+99.86	16.94	RT	WV, TBA
344+70.15	16.99	RT	WV, TBA				

TBA = To be Adjusted to proposed roadway grades, adjustment/ coordination will be required at the time of construction of 4070-00-70 project.

Offsite = Not in the limits where roadway profile is raised by 1-inch (Roseland Dr. to Knight Ave.), therefore no adjustment/ coordination will be required at the time of construction of 4070-00-70 project.

Contact Mr. Dennis Aupperle, (262-622-8484) at the Kewaskum Public Works Department. Adjustments are anticipated to take 5 working days.

**Spectrum – Communication Line** has existing facilities within the project area. No conflicts or adjustments are anticipated within the construction limits.

**Village of Kewaskum – Sanitary Sewer**

Village of Kewaskum has facilities within the projects that may require adjustments during construction. Sanitary manholes will be adjusted by the Village of Kewaskum at the following locations during construction.

STATION	OFFSET		KEG Notes	STATION	OFFSET		KEG Notes
327+31.30	23.35	RT	San MH, TBA	343+30.11	2.12	LT	San MH, TBA
331+61.16	16.79	RT	San MH, TBA	344+85.99	3.14	LT	San MH, TBA
331+61.97	1.31	LT	San MH, TBA	346+76.61	0.76	LT	San MH, TBA
334+51.47	0.20	RT	San MH, TBA	350+00.69	0.46	LT	San MH, TBA
337+46.01	0.29	LT	San MH, TBA	350+98.34	0.53	LT	San MH, TBA
339+65.11	0.42	RT	San MH, TBA	355+45.98	2.51	LT	San MH, TBA
342+86.49	1.19	RT	San MH, TBA	357+77.11	2.63	LT	San MH, TBA

TBA = To be Adjusted to proposed roadway grades, adjustment/ coordination will be required at the time of construction of 4070-00-70 project.
Offsite = Not in the limits where roadway profile is raised by 1-inch (Roseland Dr. to Knight Ave.), therefore no adjustment/ coordination will be required at the time of construction of 4070-00-70 project.

Contact Mr. Dennis Aupperle (262-622-8484) at the Kewaskum Public Works Department. Adjustments are anticipated to take 5 working days.

**WE Energies – Electricity**

WE Energies – Electricity has aerial and underground facilities within the project corridor from the beginning of the project at Station 313+30 to the end of the project at Station 376+65.

WE Energies has facilities in conflict and plans to relocate them as noted.

Pole at Station 326+84, 26.0' LT will be removed prior to construction.

Pole at Station 334+19, 27.5' LT will be removed prior to construction.

Pole at Station 337+95, 27.0' RT will be removed prior to construction.

Three days are required to complete the work for all pole adjustments.

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

**WE Energies – Gas/Petroleum**

WE Energies – Gas/Petroleum has underground facilities within the project limits. Gas valves will be adjusted by WE Energies and coordinated during construction.

Gas Valve, Station 334+10, 26' LT

Gas Valve, Station 349+42, 28' RT

Gas Valve, Station 351+25, 36' LT

Contact WE Energies 24-hour Dispatch, 1 (800) 261-5325. Allow 1 day for the work to be completed.

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

## **7. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.**

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Doug Cain at (262) 548-5603.

## **8. Erosion Control.**

*Supplement standard spec 107.20 with the following:*

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

Provide the ECIP 14 days prior to the pre-construction meeting. Provide 1 copy of the ECIP to the department and 1 copy of the ECIP to the WDNR Liaison, Benton Stelzel, (262) 623-0194, [Benton.stelzel@wisconsin.gov](mailto:Benton.stelzel@wisconsin.gov). Do not implement the ECIP without department approval and perform all work conforming to the approved ECIP.

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

Stockpile excess materials or spoils on upland areas away from wetlands, floodplains, and waterways. Immediately install perimeter silt fence protection around stockpiles. If stockpiled materials will be left for more than 14 days, install temporary seed or other temporary erosion control measures the engineer orders.

Re-apply topsoil on graded areas, as the engineer directs, immediately after the grading is completed within those areas. Seed, fertilize, and mulch/erosion mat topsoiled areas, as the engineer directs, 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.

### **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 any erosion from the discharge velocity that would cause release of sediment downstream. Dewatering is considered incidental to the contract.

### **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 work site or discharge to a storm water conveyance system without sediment removal treatment. Do not allow any 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.

Prior to each dewatering operation, submit to the department a separate ECIP amendment for sediment removal. Guidance on dewatering can be found on the Wisconsin DNR website located in the Storm Water Construction Technical Standards, Dewatering Code #1061,

[http://dnr.wi.gov/topic/stormwater/standards/const\\_standards.html](http://dnr.wi.gov/topic/stormwater/standards/const_standards.html).

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. Dewatering is considered incidental to the contract.

### **Maintaining Drainage**

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

SER-107-003 (20161220)

Proposed erosion control devices for abandoning sewer to be included in the ECIP.

### **9. Notice to Contractor – Traffic Signal Bases.**

Traffic signal bases in close proximity to underground utilities may require hydro excavation to excavate for the traffic signal base. The cost of hydro excavation is incidental to the cost of the traffic signal base.

### **10. Notice to Contractor – Traffic Signal Equipment Lead Time.**

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

### **11. Notice to Contractor – Possible Contamination Beyond Construction Limits.**

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

1. Station 332+50 to 334+25, beyond project limits left (Shefond Oil, 1149 Fond du Lac Ave., WDNR BRRTS No. 03-67-004616, Closed LUST Site).

The contaminated soils at the above sites are expected to be beyond the excavation limits necessary to complete the work under this project. Control construction operations at these locations to ensure that they do not extend beyond the excavation limits indicated in the plans. If contaminated soils are encountered at these sites or elsewhere on the project during excavation, terminate excavation in the area and notify the engineer.

The Hazardous Materials Report is available by contacting:

Andrew Malsom  
WisDOT SE Region  
141 NW Barstow St.  
Waukesha, WI 53187  
(262) 548-6705  
[andrew.malsom@dot.wi.gov](mailto:andrew.malsom@dot.wi.gov)

stp-107-100 (20230113)

**12. Notice to Contractor – Removing Village of Kewaskum Bench.**

Contact the Village of Kewaskum prior to the start of construction to have the Village remove all public benches that may conflict with the project work. Contact Dennis Aupperle at (262) 626-4310.

**13. Coordination with Businesses and Residents.**

The department will arrange and conduct a meeting between the contractor, the department, affected residents, local officials, and businesspeople 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 two weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

**14. Abandoning Sewer, Item 204.0291.S.**

**A Description**

This special provision describes abandoning existing sewer by filling it with cellular concrete as the plans show and conforming to standard spec 204 and standard spec 501 as modified in this special provision.

**B Materials**

Provide cellular concrete meeting the following specifications: 1 part cement, 1 part fly ash, 8 parts sand, or an approved equal, and water. Provide cement meeting the requirements of standard spec 501.2.4.1 for Type 1 Portland Cement. Provide sand meeting the requirements of standard spec 501.2.7.2. Provide water meeting the requirements of standard spec 501.2.6.

**C Construction**

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

**D Measurement**

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

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

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

stp-204-050 (20210708)

**15. Removing Traffic Signals USH 45/CTH H & CTH H West, Item 204.9060.S.001.**

**A Description**

This special provision describes removing existing traffic signals at the intersection of USH 45/CTH H & CTH H West according to the pertinent provisions of standard spec 204 and as hereinafter provided. Specific removal items are noted in the plans.

**B (Vacant)**

### **C Construction**

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

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

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

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

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

### **D Measurement**

The department will measure Removing Traffic Signals USH 45/CTH H & CTH H West 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
204.9060.S.001	Removing Traffic Signals USH 45/CTH H & CTH H West	EACH

Payment is full compensation for removing, disassembling traffic signals, scrapping of some materials, disposing of scrap material, for delivering the requested materials to the department, and incidentals necessary to complete the contract work.

The department will pay separately for detachment and disposal of luminaires and lamps.

## **16. Removing Loop Detector Wire & Lead-In Cable USH 45/CTH H & CTH H West, Item 204.9060.S.002; Removing Loop Detector Wire & Lead-In Cable USH 45/STH 28 & STH 28 (Main St), Item 204.9060.S.003.**

### **A Description**

This special provision describes removing loop detector wire and lead-in cable at the intersections of USH 45/CTH H & CTH H West; USH 45/STH 28 & STH 28 (Main St). Removal will be according to standard spec 204, as shown in the plans, and as hereinafter provided.

### **B (Vacant)**

### **C Construction**

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

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



## D Measurement

The department will measure Removing Loop Detector Wire & Lead-In Cable (location) as each individual unit acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.002	Removing Loop Detector Wire & Lead-In Cable USH 45/CTH H & CTH H West	EACH
204.9060.S.003	Removing Loop Detector Wire & Lead-In Cable USH 45/STH 28 & STH 28 (Main St)	EACH

Payment is full compensation for removing, scrapping, and disposing of material and incidentals necessary to complete the contract work.

## 17. QMP HMA Pavement Nuclear Density.

### A Description

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

- (1) This special provision describes density testing of in-place HMA pavement with the use of nuclear density gauges. Conform to standard spec 460 except as modified in this special provision.
- (2) Provide and maintain a quality control program defined as all activities and documentation of the following:
  1. Selection of test sites.
  2. Testing.
  3. Necessary adjustments in the process.
  4. Process control inspection.
- (3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required procedures.

<https://wisconsindot.gov/rdwy/cmm/cm-08-00.pdf>

- (4) The department's Materials Reporting System (MRS) software allows contractors to submit data to the department electronically, estimate pay adjustments, and print selected reports. Qualified personnel may obtain MRS software from the department's web site at:

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

### B Materials

#### B.1 Personnel

- (1) Nuclear gauge owners and personnel using nuclear gauges shall comply with WisDOT requirements according to 460.3.3 and CMM 815.

#### B.2 Testing

- (1) Conform to WTM T355 and CMM 815 for density testing and gauge monitoring methods. Conform to CMM 815.10.4 for test duration and gauge placement.

#### B.3 Equipment

##### B.3.1 General

- (1) Furnish nuclear gauges according to CMM 815.2.
- (2) Furnish nuclear gauges from the department's approved product list at

<https://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/appr-prod/default.aspx>

##### B.3.2 Comparison of Nuclear Gauges

###### B.3.2.1 Comparison of QC and QV Nuclear Gauges

- (1) Compare QC and QV nuclear gauges according to WTM T355.

### **B.3.2.2 Reference Site Monitoring**

- (1) Conduct reference site monitoring for both QC and QV gauges according to WTM T355.

## **B.4 Quality Control Testing and Documentation**

### **B.4.1 Lot and Sublot Requirements**

#### **B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances**

- (1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 815.10.2.
- (2) Determine required number of tests according to CMM 815.10.2.1.
- (3) Determine random testing locations according to CMM 815.10.3.

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

- (1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 815.10.2.
- (2) Determine required number of tests according to CMM 815.10.2.2.
- (3) Determine random testing locations according to CMM 815.10.3.

### **B.4.2 Pavement Density Determination**

#### **B.4.2.1 Mainline Traffic Lanes and Appurtenances**

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

#### **B.4.2.2 Mainline Shoulders**

##### **B.4.2.2.1 Width Greater Than 5 Feet**

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

##### **B.4.2.2.2 Width of 5 Feet or Less**

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

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

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

#### **B.4.2.4 Documentation**

- (1) Document QC density test data as specified in CMM 815. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

### **B.4.3 Corrective Action**

- (1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.
- (2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted subplot. Testing in a previously accepted subplot will not be used to recalculate a new lot density.

- (3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full subplot width within the traffic lanes or shoulders.
- (4) Retesting and acceptance of replaced pavement will be as specified in standard spec 105.3.
- (5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the subplot and lot densities.
- (6) If two consecutive subplot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

## **B.5 Department Testing**

### **B.5.1 Verification Testing**

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

### **B.5.2 Independent Assurance Testing**

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

## **B.6 Dispute Resolution**

- (1) The testers may perform investigation in the work zone by analyzing the testing, calculation, and documentation procedures. The testers may perform gauge comparison according to B.3.2.1.
- (2) The testers may use comparison monitoring according to B.3.2.2 to determine if one of the gauges is out of tolerance. If a gauge is found to be out of tolerance with its reference value, remove the gauge from the project and use the other gauge's test results for acceptance.
- (3) If the testing discrepancy cannot be identified, the contractor may elect to accept the QV subplot density test results or retesting of the subplot in dispute within 48 hours of paving. Traffic control costs will be split between the department and the contractor.
- (4) If investigation finds that both gauges are in error, the contractor and engineer will reach a decision on resolution through mutual agreement.

## **B.7 Acceptance**

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

## **C (Vacant)**

## **D (Vacant)**

## **E Payment**

### **E.1 QMP Testing**

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

### **E.2 Disincentive for HMA Pavement Density**

- (1) The department will administer density disincentives as specified in standard spec 460.5.2.2.

### **E.3 Incentive for HMA Pavement Density**

- (1) The department will administer density incentives as specified in standard spec 460.5.2.3.  
stp-460-020 (20230629)

## **18. Adjusting Storm Sewer Structures.**

*Add the following text to standard spec 611.3.1:*

Remove covers and frames prior to milling. Cover openings with a Cover Plates Temporary of sufficient thickness to carry traffic and at a depth to accommodate the milling operations. Backfill excavated areas with an asphalt surface mix to an elevation that will match the adjacent pavement. Cover Plates Temporary will be paid as separate contract bid item.

*Add the following text to standard spec 611.3.7:*

The replacement of Grade A concrete when adjusting manhole covers in areas of bituminous resurfacing shall be to the top of the existing concrete base as shown on the detail for adjusting manhole covers. Use construction methods that conform to the requirements set forth in standard spec 611.3.3.

*Add the following text to standard spec 611.5:*

Removal and replacement of concrete pavement to accomplish the work shall be incidental to the cost of work. Removal and replacement of concrete curb and gutter will be paid for under items Removing Curb and Gutter and Concrete Curb and Gutter, 30-Inch.

SER-611-001 (20161216)

## **19. Adjusting Manhole Covers, Item 611.8110.**

This special provision describes adjusting manhole covers conforming to standard spec 611 as modified in this special provision.

Adjust manhole covers located in pavement areas in two separate operations. Initially, remove designated manhole covers along with sufficient pavement to permit installation of temporary cover plate over the opening. Fill the excavated area with asphaltic pavement mixture, which shall remain in place until contract milling and paving operations permit setting the manhole frames to grade. During the second phase, remove the asphaltic pavement mixture surrounding the manhole plus the temporary cover plate, and set the manhole cover to final grade. The department will measure and pay for the items of asphaltic pavement mixture, temporary cover plate, milling, and paving separately.

*Supplement standard spec 611.3.7 with the following:*

Set the manhole frames so that they comply with the surface requirements of standard spec 450.3.2.9. At the completion of the paving, a 6-foot straightedge shall be placed over the centerline of each manhole frame parallel to the direction of traffic. A measurement shall be made at each side of the frame. The two measurements shall be averaged. If this average is greater than 5/8 inches, reset the manhole frame to the correct plane and elevation. If this average is 5/8 inches or less but greater than 3/8 inches, the manhole frame shall be allowed to remain in place but shall be paid for at 50 percent of the contract unit price.

If the manhole frame is higher than the adjacent pavement, the two measurements shall be made at each end of the straightedge. These two measurements shall be averaged. The same criteria for acceptance and payment as above, shall apply.

stp-611-005 (20200629)

**20. Cover Plates Temporary, Item 611.8120.S.**

**A Description**

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

**B Materials**

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

**C (Vacant)**

**D Measurement**

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

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	EACH

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

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

stp-611-006 (20151210)

**21. Topsoil and Salvaged Topsoil.**

*Replace standard spec 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 standard spec 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)

## **22. Fertilizer Type B.**

*Replace standard spec 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 standard spec 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 standard spec 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)

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

*Replace standard spec 651.3.3 (3) with the following:*

- (3) Request a signal inspection of the signal installation to the engineer after completing the Prerequisites for Underground Inspection or Prerequisites for Above Ground Inspection at least five working days prior to the time of the requested inspection. Notify the department's Electrical Field Unit at (414) 266-1170 to coordinate the inspection. The department's Region Electrical personnel will perform the inspection. In the event of deficiencies, request a re-inspection when the work is corrected. The engineer will not authorize continuation to aboveground work or turn-on until the contractor corrects all deficiencies.

## **24. Install Conduit into Existing Item, Item 652.0700.S.**

### **A Description**

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

### **B Materials**

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

## C Construction

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

## D Measurement

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

## E Payment

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

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

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

## 25. Concrete Bases.

*Add the following as paragraph seven to standard spec 654.2:*

- (7) For casing to remain in place, furnish corrugated metal pipe from the department's approved product list.

*Replace standard spec 654.5(2) with the following:*

- (2) Payment for the Bases bid items is full compensation for providing concrete bases; for embedded conduit and electrical components; for anchor templates, rods, nuts, and washers; for bar steel reinforcement; for drilling; and for excavating and backfilling.

*Add the following as paragraph three to standard spec 654.5:*

- (3) If required by the engineer, the department will pay for the material costs of casing left in place, according to standard spec 109.4.5.4.

SER-654-001 (20210910)

## 26. Electrical Service Meter Breaker Pedestal USH 45/CTH H & CTH H West, Item 656.0201.001.

*Append standard spec 656.2.3 with the following:*

(2) The department will be responsible for the electrical service installation request for any department maintained facility. Notify the maintaining authority if the signal is not state maintained that it is their responsibility to arrange for the electrical service installation.

(3) Electrical utility company service installation and energy cost will be billed to and paid for by the maintaining authority.

(4) Install the cabinet base and meter breaker pedestal first, so the electrical utility company can install the service lateral. Install a 3" conduit from the point of service from the utility to the meter breaker pedestal. 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 electrical utility company.

*Append standard spec 656.5 with the following:*

(8) Payment is full compensation for grading the service trench; replacing topsoil; and for fertilizing, seeding, and mulching to restore the disturbed area of the service trench.

## **27. Signal Housings.**

*Add the following to standard spec 658.2(3):*

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.

*Replace standard spec 658.2(4) with the following:*

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

## **28. Traffic Signal Mounting Hardware.**

*Replace standard spec 658.2(7) with the following:*

(7) For signal mounting hardware: furnish weather tight mounting hardware. Protect mounting hardware from the elements before installation. Use corrosion resistant poly bracket shims. 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.

## **29. Pedestrian Push Buttons.**

*Replace standard spec 658.3(3) with the following:*

For pedestrian push buttons: provide a 3/4-inch diameter push button mounting hole for wiring purposes in standards or poles. De-burr the holes after sawing and before installing the wire. Use shielded, 14 AWG, 2 conductor, polyethylene insulated, with 16 AWG drain wire, conforming to IMSA Specification Number 50-2 for loop detector lead-in cable, to wire the push button in one continuous run from the cabinet to the push button at the locations indicated on the plan.

## **30. Traffic Signal Faces and Pedestrian Signal Face 16-Inch.**

*Add the following to standard spec 658.3:*

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

## **31. 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.

For Lamp, Ballast, LED, Switch Disposal by Department, coordinate removal from the work site and delivery to the designated location for disposal by the department.

## **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-bus/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/cnslt-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)

## 32. Temporary Traffic Signals for Intersections USH 45/CTH H & CTH H West, Item 661.0201.001.

*Replace standard spec 661.2.1 (1) with the following:*

(1) Furnish control cabinet and control equipment. The department will supply, maintain, and install a signal controller, cellular modem, and ethernet switch to establish remote communication to the signal controller. The cabinet must be equipped with a 6-circuit Isotel independent of the GFI receptacles. Provide a cabinet with a Corbin #2 door lock and an access door that allows placing the controller in emergency flash. Provide keys to the access door to the engineer and law enforcement agencies as required. Also provide a manual control accessible by the police. Test traffic signal control cabinets before installation. The department will provide the signal controller with the initial traffic signal timing, and the department will be responsible for all subsequent signal timing changes.

*Replace standard spec 661.2.1 (3) with the following:*

(3) The department has initiated the installation of the temporary electrical service with the electrical utility as it pertains to the service application and site sketch at the intersection of USH 45/CTH H & CTH H West to expedite the process. Contact David Brantner at (262) 548-8736 to coordinate the temporary electrical service. The department will pay for all installation and Energy Costs associated with the operation of the Temporary Traffic Signal. It is the contractor's responsibility to contact the electrical utility as it pertains to the affidavit and site ready card to arrange timely installation of the temporary service. If the control cabinet is not mounted on the electrical service pole, add a second electrical service disconnect to the outside of the control cabinet for the convenience of emergency personnel.

Furnish and install a generator to operate the temporary traffic signals for the times required to switch the existing permanent traffic signal over to the temporary traffic signal and for the time required to switch the temporary traffic signal back over to the permanent 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 standard spec 661.2.1 (6) with the following:*

(6) Control equipment or controller equipment is defined as anything inside the control cabinet excluding the department furnished signal controller, cellular modem, and ethernet switch.

*Replace standard spec 661.3.1 (2) 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 SE Region Electrical Field Unit at (414) 266-1170 to coordinate the inspection. The SE Region electrical personnel will perform the inspection.

*Append standard spec 661.3.1.4 (4) 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 standard spec 661.3.2.6 (2) with the following:*

(2) Upon acceptance of new signal and completion of work, the department 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. The department shall remove the signal controller, cellular modem, and ethernet switch.

*Append standard spec 661.3.2.6 (6) with the following:*

(6) Remove the CCTV camera, hardware, mounting brackets and cabling from the temporary traffic signal installation and return it to the department.

*Replace standard spec 661.3.2.7 (2) 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. If the outcome of the response identifies damage to the department furnished signal controller, notify the Traffic Management Center at (800) 375-7302 who will then dispatch the SE Region Electrical Field Unit.

*Replace standard spec 661.5 (2) 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. The cost of delivery and pick-up of the cabinet assemblies.

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; and for cleaning up and properly disposing of waste.

### **33. Install Camera Assembly, Item 677.0200.**

*Replace standard spec 677.3 (8) with the following:*

(8) For temporary traffic signal camera installations, provide camera cables on the temporary traffic signal span wire as directed by the engineer. Provide continuous cable runs without splices between the camera assembly and the camera controller assembly.

### **34. Rectangular Rapid Flash Beacon System USH 45 NB North Ave Assembly, Item SPV.0060.001; Rectangular Rapid Flash Beacon System USH 45 SB North Ave Assembly, Item SPV.0060.002.**

#### **A Description**

This work shall consist of furnishing and installing to the department a solar powered rectangular rapid flashing beacon (RRFB) system consisting of multiple assemblies as described herein and as shown in the plans. Each assembly shall be solar powered and pedestrian activated. The assemblies shall be wirelessly controlled and multiple units shall be synchronized. This specification is according to requirements contained in FHWA interim approval 1A-21 dated March 20, 2018, for flashing requirements and beacon operation.

## B Materials

Furnish a RRFB system with multiple assemblies. Each assembly may consist of, but not limited to, light indications, and electrical components (wiring, solid-state circuit boards, etc). An assembly may include the following items:

- (1) Light Indications
  - a. Each indication shall be a minimum size of approximately 7" wide x 3" high with 8 high power LEDs.
  - b. Two indications shall be installed on an assembly facing in the direction of approaching vehicular traffic. The two indications shall be aligned horizontally, with the longer dimension of the indication horizontal, and a minimum space between the two indications of approximately 7" measured from inside edge of one indication to inside edge of second indication.
  - c. A 6 LED or approved equal indication shall be installed on an assembly facing in the direction of approaching pedestrian traffic to serve as a confirmation for the pedestrian that the system has been activated.
  - d. The outside edges of the two indications, including any housing, shall not protrude beyond the outside edges of the integral signage of the assembly.
  - e. The light intensity of the indications shall be certified to meet the minimum specifications of the Society of Automotive Engineers (SAE) standard J595 Class 1 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005 and be available upon request.
  - f. Each indication shall be located between the bottom of the crossing warning sign and the top of the supplemental downward diagonal arrow plaque.
  - g. All exposed hardware shall be anti-vandal.
  - h. All individual components of the system shall be replaceable to allow for easy field repair and maintenance.
  - i. To minimize excessive glare during nighttime conditions, an automatic signal dimming device should be used to reduce the brilliance of the RRFB indications during nighttime conditions.
- (2) Sign
  - a. All signs shall be supplied and installed under a separate bid item. However, the assemblies must be constructed to allow the appropriate space for the installation of the signs in the field. The R10-25 9" x 12" push button sign is incidental to this assembly.
- (3) Control Circuit
  - a. The control circuit shall have the capability of independently flashing up to two independent outputs. The LED light outputs and flash pattern shall be FHWA approved and engineer programmed.
  - b. The controller shall be one of the following:

Web enabled to allow for remote programming and system diagnostics. Including flash time, flash pattern and report system information, such as battery voltage, and temperature.

On-board user interface that provides system diagnostics and allows system setting changes.

Approved equal.
  - c. The flashing output shall have 75 flashing sequences per minute during each 800 millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:
    1. The RRFB indication on the median side shall be illuminated for approximately 50 milliseconds.
    2. Both RRFB indications shall be dark for approximately 50 milliseconds.
    3. The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds.

4. Both RRFB indications shall be dark for approximately 50 milliseconds.
  5. Both RRFB indications shall be illuminated for approximately 50 milliseconds.
  6. Both RRFB indications shall be dark for approximately 50 milliseconds.
  7. The RRFB indications for the advance RRFB shall be illuminated for approximately 50 milliseconds.
  8. RRFB indications shall be dark for approximately 50 milliseconds.
- d. Flash rates with the frequencies of 5 to 30 flashes/second shall not be used to avoid inducing seizures.
  - e. The control circuit shall be installed in an IP67 NEMA rated enclosure or NEMA 3R.
  - f. All circuit connectors shall conform to Ingress Protection, IP-67 rating, dust proof, and protected from temporary immersion in water up to 3 feet deep for 30 minutes. Connectors shall be Deutsch DTM series, Carmanah RRFB or approved equal.
  - g. All individual components of the system shall be replaceable to allow for easy field repair and maintenance.
- (4) Beacon Operation:
- a. The RRFB shall be normally dark, shall initiate operation only upon pedestrian actuation, and shall cease operation at a predetermined time after the pedestrian actuation or, with passive detection, after the pedestrian clears the crosswalk.
  - b. All RRFB units associated with a given crosswalk (including those with an advance crossing sign, if used) shall, when actuated, simultaneously commence operation of their rapid-flashing indications, and shall cease operation simultaneously.
  - c. If pedestrian push button detectors (rather than passive detection) are used to actuate the RRFB indications, a Push Button To Turn On Warning Lights (R10-25) sign shall be installed explaining the purpose and use of the pedestrian push button detector. See signing plan.
  - d. The duration of a predetermined period of operation of the RRFBs following each actuation should be based on the procedures provided in Section 4E.06 of the 2009 MUTCD for the timing of pedestrian clearance times for pedestrian signals.
  - e. The predetermined flash period shall be immediately initiated each and every time that a pedestrian presses a push button detector.
  - f. A small pilot light may be installed integral to the RRFB or pedestrian push button detector to give confirmation that the RRFB is in operation.
- (5) Battery
- a. The Battery shall be a 12VDC Absorbed Glass Mat (AGM) sealed lead-acid, maintenance-free battery.
  - b. The Battery shall be rated at 45AH minimum and shall conform to Battery Council International (BCI) specifications or battery system that is 14Ah or 48AR Gel Battery and is suitable for usage model and system autonomy requirements or approved equal.  
All batteries shall be sealed in a plastic film to provide moisture and corrosion resistance.
  - c. The Battery shall have a minimum operating temperature range of -76° to 140°F (-60° to 60°C).
  - d. All battery connectors shall conform to Ingress Protection, IP-67 rating, dust proof, and protected from temporary immersion in water up to 3 feet deep for 30 minutes. Connectors shall be Deutsch DTM series or approved equal.
  - e. The Battery shall be solar-charged with a capacity up to 30 days of autonomy without sunlight, varying with ambient temperature and number of activations. Solar calculations shall be provided.

- (6) **Wireless Radio**
- a. Radio control shall operate on 900 MHz frequency hopping spread spectrum network or 2.4 GHz ISM band mesh network radio.
  - b. Radio shall integrate with communication of RRFB system control circuit to activate light indications from push button input.
  - c. The Radio shall synchronize all of the remote light indications so they will turn on within 120 msec of each other and remain synchronized through-out the duration of the flashing cycle.
  - d. Radio systems shall operate from 3.6 vdc to 15 vdc.
  - e. The Radio unit shall have an LCD display to program flash time and communicate system information, such as battery voltage, battery temperature, and solar charge level onboard diagnostics.
  - f. All individual components of the system shall be replaceable to allow for easy field repair and maintenance.
- (7) **Pushbutton**
- a. The pushbutton shall be capable of continuous operation over a temperature range of -30 degrees F to 165 degrees F (-34 degrees C to 74 degrees C).
  - b. Pushbutton shall be ADA compliant.
  - c. Pushbutton facing sidewalk area that is accessible to wheelchair person.
- (8) **Solar Panel**
- a. The Solar Panel shall provide a minimum of 10 watts and maximum of 55 watts at peak total output or approved equal.
  - b. The Solar Panel shall be affixed to an aluminum plate and bracket, at minimum angle of 45 degrees to allow for maximum solar collection and optimal battery strength or approved equal.
  - c. The Solar Panel Assembly (panel, plate, and bracket) shall be mounted on a pole cap mount or aluminum mounting bracket, to allow for maximum solar collection and optimal battery strength or approved equal.
  - d. The Solar Panel shall have a minimum operating temperature range of -40° to 185°F (-40° to 85°C).
- (9) **Pedestal Shaft**
- a. Shall meet the requirements as set forth in standard spec 657.
  - b. Shall be a standard 4.5" OD aluminum pedestal pole. Supplied with one end threaded for easy installation into a pedestal base.
  - c. Shall be a 13' Schedule 80 pipe raw aluminum.
  - d. Shall be per SDD 09E07-06.
  - e. Incidental to RRFB.
  - f. See signing plan for locations.
- (10) **Pedestal Base**
- a. Shall meet the requirements as set forth in standard spec 657.2.5.
  - b. The pedestal base shall be a cast aluminum pedestals mount on a concrete base attached by four internal anchor bolts imbedded in the base.
  - c. The Base shall have a large 8.5" square hand hole cover allowing access to the interior of the base.
  - d. Shall be per SDD 9C3-4.
  - e. Incidental to RRFB.
- (11) **Concrete Base**
- a. Shall meet the requirements as set forth in standard spec 654.2, as applicable.
  - b. The concrete base shall be a Type 1 base per SDD 09C02-09 type 1 base.
  - c. Drilling of shaft is incidental to base.
  - d. Incidental to RRFB.

- (12) Anchor Bolts
  - a. The anchor bolts shall be galvanized steel 1" x 42".
  - b. Set of 4 includes lock washer and nut.
  - c. Incidental to RRFB.

**C Construction**

The RRFB system will consist of multiple assemblies to be constructed by the contractor as shown on the plans. NOTE: The RRFB's back-to-back assemblies include an RRFB facing both NB and SB.

**D Measurement**

The department will measure furnishing to the department a rectangular rapid flash beacon (RRFB) system as an each item, as shown on the plans, acceptable furnished and delivered.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.001	Rectangular Rapid Flash Beacon System USH 45 NB North Avenue Assembly	EACH
SPV.0060.002	Rectangular Rapid Flash Beacon System USH 45 SB North Avenue Assembly	EACH

Payment is full compensation for providing and installing a fully operational RRFB system consisting of multiple assemblies.

**35. Curb Ramp Grading, Shaping and Finishing, Item SPV.0060.003.**

**A Description**

This special provision describes excavating, grading, filling, shaping, compacting, and finishing as necessary to construct each curb ramp location conforming to standard spec 205, 208, 211, 305, 625, 629, and 631, as the plans show, and as follows.

**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
Fertilizer	629.2
Sod Lawn	631.2

**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, and sod lawn.

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.0060.003	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, and sod lawn 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.

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**36. Drainage Structure Repair and Cleaning, Item SPV.0060.004.**

**A Description**

This special provision describes repairing and cleaning storm sewer manholes and inlets that are not covered under other contract items.

**B Materials**

Furnish materials conforming to standard spec 519.

**C Construction**

Clean out all soils, debris, or other accumulated matter from all catch basins, manholes, inlets, or other similar structures as indicated in the contract.

Inspect the structures for loose or failing mortar, remove loose or failing mortar, and clean the area prior to repairing.

Fill large voids with sound pieces from bricks or blocks. Apply a plaster coat of mortar to the area of repair and make this plaster coat not less than 1/2-inch thick. Before applying a plaster coat, wet the surface with water and let the surface dry enough to prevent slipping.

As soon as possible after applying the plaster coat to a structure, apply a uniform coating of liquid membrane curing compound to the repaired surfaces.

**D Measurement**

The department will measure Drainage Structure Repair and Cleaning by each individual unit, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.004	Drainage Structure Repair and Cleaning	EACH

Payment is full compensation for performing all work required under this bid item including disposal of any waste material from cleaning the structures.

**37. Reconnect Storm Sewer, Item SPV.0060.005**

**A Description**

This special provision describes connecting new storm sewer pipe or structures to existing storm sewer pipe or structures. This special provision also describes connecting a new manhole or inlet to existing pipe.

**B (Vacant)**

**C Construction**

Remove existing pipe, concrete collars, pipe seals or end walls constructed under previous projects or in earlier stages of this project. Verify that positive drainage is achieved when connecting new pipe to existing structures or storm sewer. If necessary, reset pipe stubs or sections of existing pipe to ensure positive drainage. Salvage any structurally sound pipe that requires removal if prior approval is granted by the engineer. Connect the new pipe or structure to the existing pipe or structures with the appropriate coupling, concrete collar, removing/replacing existing box-out grout or by means approved by the engineer. Use low shrink grout for concrete collar conforming to standard spec 520.2.4.



**D Measurement**

The department will measure Reconnect Storm Sewer as each new pipe or structure connection to existing pipe or structure, acceptably completed. Measurement will include connections of new pipe or structures to pipe or structures placed in previous stages of the project, in addition to pipe or structures constructed under previous projects.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.005	Reconnect Storm Sewer	EACH

Payment is full compensation for performing all work; removing pipe, seals, end walls, existing box-out materials and concrete collars, providing all materials, coring, couplings, low shrink grout and concrete collars. Any additional pipe or materials required to reconnect the storm sewer shall be considered incidental to this bid item.

**38. Utility Line Opening, Item SPV.0060.006.**

**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 shown on the plans or as directed by the engineer.

**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 approved by the engineer. Notify the utility engineers or their agents of this work a minimum of 3 days prior to the work so they may be present when the work is completed. Notify the infrastructure/utility owner or their agents 3 working days in advance so that they may be present when excavation work commences.

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

Perform the utility line at least 10 days in advance of proposed construction to allow any conflicts to be resolved with minimal disruption. Allow the engineer a minimum of 3 working days after ULO information is received to review and respond with potential design inquiries.

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.

**D Measurement**

The department will measure Utility Line Opening 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.0060.006	Utility Line Opening	EACH

Payment is full compensation for the excavation required to expose the utility line; 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.

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- 39. Install Poles Type 10, Item SPV.0060.008;  
Install Poles Type 10 Special, Item SPV.0060.009;  
Install Monotube Arms 30-FT, Item SPV.0060.010;  
Install Monotube Arms 45-FT Type 9/10 Spec Pole, Item SPV.0060.011;  
Install Luminaire Arms Steel 15-FT, Item SPV.0060.012.**

**A Description**

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

**B Materials**

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

**C Construction**

Install equipment according to standard spec 657.3.

**D Measurement**

The department will measure Install [Equipment] by the each, 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.0060.008	Install Poles Type 10	EACH
SPV.0060.009	Install Poles Type 10 Special	EACH
SPV.0060.010	Install Monotube Arms 30-FT	EACH
SPV.0060.011	Install Monotube Arms 45-FT Type 9/10 Spec Pole	EACH
SPV.0060.012	Install Luminaire Arms Steel 15-FT	EACH

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

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

- 40. Temporary Accessible Ped Signal System USH 45/CTH H & CTH H West, Item SPV.0060.013.**

**A Description**

This work shall consist of furnishing and installing a temporary accessible pedestrian signal system at a single intersection, as shown on the plans, and as hereinafter provided.

## **B Materials**

Furnish pedestrian push buttons conforming to all of the following requirements:

### Audible Pedestrian Signal Push Button

1. Sunlight visible "Red LED" lights when the button is pushed and remains on until the walk phase goes into effect.
2. Audible "Tick" sound is heard each time the button is pushed, as well as tactile feedback given.
3. Extended push button can turn on boost volumes, and/or mute all sounds except those on actuated crosswalk.
4. All audible sounds automatically adjust in volume in relation to ambient noise level.
5. Audio Amplifier Power Output: 15 W, 8 ohm, weatherproof.
6. Provide separate volume controls for locator tone, walk message, clearance, and extended button volumes.
7. Volume Control Automatic Adjustment Range: 35 dB max.
8. Microphone For Ambient Noise approximate frequency range: 170 Hz to 2.3 kHz.
9. Jumper Selectable Options: Chirp, Cuckoo, Walk Message, Rest In Walk, Location Message, Extended Push of Activation and Locating Tone.
10. Audible Locating Tone: 880 Hz plus harmonic, 0.1-second duration, 1-second interval. Operates during ped clearance and don't walk interval. All tones shall meet MUTCD requirements.
11. Option standard locating tone, custom sound or verbal count down during PED Clearance and multiple voice message languages. Provide custom walk message, direction of travel and/or emergency vehicle warning message.
12. All sounds are synchronized. Sound alternate in front of the pedestrian and behind the pedestrian during the walking and/or ped clearance phase ("Ping Pong" feature).
13. Temperature Range: -40 degrees F to 165 degrees F.
14. Wind sensor to prevent runaway volume during windy conditions.
15. System can self-test and fault report to a remote site for real-time monitoring and system maintenance. Conflict Detect: WALK indication is ignored in the event of a WALK/DON'T WALK conflict.
16. Pedestrian Push Button Interface accepts 12 to 48 AC/DC. Capable of global configuration changes and/or single unit changes.
17. Dimensions: Length: 14.09", Width: 5.4", Depth: 2.2".
18. Frame: cast aluminum, powder coated yellow.
19. Face Plate: aluminum, powder coated, painted black background.
20. Arrow Push Button: aluminum, powder coated. Direction of arrow can adjust to one of four directions.

21. Push Button: ADA compliant, cast aluminum, nickel plated, powder coated. Vibrator Power shall be 15 VDC pulsed. Operates during walk interval only. Speaker: 8 ohm, 15 W MAX, weather proof.
22. Comparable to Polara "Navigator 2-Wire Pedestrian Push Button Unit" or approved equal.

Central Control Unit

The control unit is the power supply and signaling interface between the existing intersection traffic controller and the pedestrian push button unit. The pedestrian control unit shall control up to 12 push button units and 4 pedestrian phases. The pedestrian control unit shall be housed inside the existing traffic controller cabinet and powered by the AC supply mains (115 VAC). The interface cable shall be included and considered incidental to the contract.

1. Pedestrian Walk/Don't Walk Inputs; Optically Isolated 80 – 150 Volts AC/DC 5mA Maximum.
2. General Purpose Outputs and Pedestrian Outputs; Optically Isolated 36 Volts AC/DC Peak, .3A Solid State Fused Contact Closure.
3. Fault Output; Normally Open and Closed Relay Contacts 125 Volts AC/DC 1A Maximum.
4. 4 Phase Pedestrian Push Button Power Output; Nominal 22 Volts DC, Short Circuit Protected – Auto Recovering.
5. General Purpose Inputs; 10 – 36 Volts AC/DC Peak 10mA Maximum, Optically Isolated.
6. Comparable to Polara "Navigator 2-Wire Central Control Unit" or approved equal.

**C Construction**

Install the push button assemblies per the manufacturer's specifications.

**D Measurement**

The department will measure Temporary Accessible Ped Signal System (location) as each unit of work, in place, and acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.013	Temporary Accessible Ped Signal System USH 45/CTH H & CTH H West	EACH

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

**41. Trnspt & Install State Furn Traffic Signal Cabinet USH 45/CTH H & CTH H West, Item SPV.0060.014.**

**A Description**

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

**B Materials**

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

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

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

### **C Construction**

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

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

### **D Measurement**

The department will measure Trnspt & Install State Furn Traffic Signal Cabinet (location) as a single lump sum unit of work for each intersection, 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.0060.014	Trnspt & Install State Furn Traffic Signal Cabinet USH 45/CTH H & CTH H West	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, and for clean-up and waste disposal.

## **42. Trnspt & Install State Furn Radar Detect Sys USH 45/CTH H & CTH H West, Item SPV.0060.015.**

### **A Description**

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

### **B Materials**

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

### **C Construction**

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

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

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

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

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

### **D Measurement**

The department will measure Trnspt & Install State Furn Radar Detect Sys (location) as a single lump sum unit of work for each intersection, 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.0060.015	Trnspt & Install State Furn Radar Detect Sys USH 45/CTH H & CTH H West	EACH

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

**43. Trnspt Traffic Signal & Inter Lighting Materials USH 45/CTH H & CTH H West, Item SPV.0060.016.**

**A Description**

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

**B Materials**

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

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

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

**C Construction**

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

**D Measurement**

The department will measure Trnspt Traffic Signal & Inter Lighting Materials (location) as a single lump sum unit of work for each intersection, 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.0060.016	Trnspt Traffic Signal & Inter Lighting Materials USH 45/CTH H & CTH H West	EACH

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

**44. Trnspt & Install State Furn Audible Ped Signal System USH 45/CTH H & CTH H West, Item SPV.0060.017.**

**A Description**

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

**B Materials**

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

**C Construction**

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

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

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

**D Measurement**

The owner will measure Trnspt & Install State Furn Audible Ped Signal System (location) as a single lump sum unit of work for each intersection, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.017	Trnspt & Install State Furn Audible Ped Signal System USH 45/CTH H & CTH H West	EACH

Payment is full compensation for transporting and installing the audible pedestrian signal equipment and mounting hardware; and assisting the department and vendor during the system setup and programming. Pedestrian signal cable will be paid for as a separate bid item.

**45. Concrete Curb and Gutter 30-Inch Type A Special, Item SPV.0090.001.**

**A Description**

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

**B Materials**

Furnish materials conforming to standard spec 601.2.

**C Construction**

Construct according to standard spec 601.3 and as shown on plans.

**D Measurement**

The department will measure Concrete Curb and Gutter 30-Inch Type A Special by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.001	Concrete Curb and Gutter 30-Inch Type A Special	LF

Payment is full compensation for conforming to standard spec 601.5.

**46. Marking Removal Curb Marking, Item SPV.0090.002.**

**A Description**

This special provision describes removing existing curb marking according to standard spec 646.3.1.4 and as herein provided.

**B Materials**

Provide necessary materials to remove the marking completely.

**C Construction**

Remove the markings completely.

**D Measurement**

The department will measure Marking Removal Curb Marking by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.002	Marking Removal Curb Marking	LF

Payment is full compensation for removing pavement marking.

**47. Concrete Joint and Crack Cleaning and Repair, Item SPV.0090.003.**

**A Description**

This special provision describes providing HMA for Joint and Crack Repair in existing pavement as the plans show and as follows.

**B Materials**

Furnish HMA pavement meeting the requirements for mixture LT or MT as specified in standard spec 465.2; except the engineer will not require the contractor to conform to the quality management program in standard spec 460.2.8. Furnish tack coat conforming to standard spec 455.2.5.

**C Construction**

Clean out all joints and cracks removing all loose and spalled concrete and all HMA patches. Dispose of all material off the project. Place asphaltic tack coat in the void. Fill voids with HMA pavement and machine compact.

**D Measurement**

The department will measure Concrete Joint and Crack Cleaning and Repair by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.003	Concrete Joint and Crack Cleaning and Repair	LF

Payment is full compensation for removing, cleaning, and properly disposing of all loose and spalled concrete and HMA patches; for providing and applying tack coat; and for providing, placing, and compacting HMA pavement.

**48. Remove, Store, and Reinstall Chain Link Fence Fabric, Item SPV.0090.004.**

**A Description**

This special provision describes removing, storing, and reinstalling chain link fence fabric.

**B Materials**

Furnish materials conforming to standard spec 616.2.3.

**C Construction**

Remove, coordinate storage of, transport, and reinstall existing chain link fence fabric.

**D Measurement**

The department will measure Remove, Store, and Reinstall Chain Link Fence Fabric by the linear foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.004	Remove, Store, and Reinstall Chain Link Fence Fabric	LF



Payment is full compensation for removing, storing, and reinstalling chain link fence fabric. Fabric Fasteners are incidental.

**49. Asphaltic Repair, Item SPV.0195.001.**

**A Description**

This special provision describes repairing areas of existing asphalt pavement with asphaltic mixtures for overlaying with new pavement.

**B Material**

Furnish nominal size No. 4 (12.5mm) aggregate blend graded as specified in 460.2.2.3 and conform to the other material and mixture requirements specified for asphaltic surface in 465. Use tack coat as required under 450.3.2.7.

**C Construction**

- (1) Remove areas of existing asphalt pavement, including existing patching or surfacing materials, at locations the plans show, or the engineer directs in the field as specified for removing asphaltic surface milling in 204.3.2.2.2. Mill the connecting edges as true and perpendicular as possible, both parallel and perpendicular to the roadway, creating a vertical edge on all sides. Remove the pavement without injury to the remaining pavement. Dispose of removed material as specified in 204.3.1.3.
- (2) As an option for areas of full depth removal, the contractor may remove areas of existing asphalt pavement, including existing patching or surfacing materials, as specified for removing asphaltic surface in 204.3.2.2.1. Saw cut the connecting edges as true and perpendicular as possible, as specified for sawing pavement in 690. Remove the pavement without injury to the remaining pavement. Dispose of removed material as specified in 204.3.1.3.
- (3) Construct as specified for asphaltic surface under 465.3 except as modified here.

*Replace standard spec 465.3.1(2) with the following:*

- (2) Place using self-propelled pavers. Pave at a constant speed, appropriate for the paver and mixture, that ensures uniform spreading and strike-off with a smooth, dense texture and no tearing or segregation.

*Replace standard spec 465.3.1(3) with the following:*

- (3) Immediately after placement, compact the mixture to produce a dense smooth surface using ordinary compaction procedures as specified in 450.3.2.6. Unless the engineer directs otherwise, compact each layer to a thickness of 6 inches or less so that the finished surface is 1/16 inch to 1/8 inch above the existing pavement surface.

**D Measurement**

The department will measure Asphaltic Repair by the ton, acceptably completed as specified for asphaltic pavement in 450.4.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.001	Asphaltic Repair	TON

- (2) Payment is full compensation for removing old pavement; for preparing the foundation; and for providing and compacting asphaltic mixture including asphaltic binder. Sawing existing asphalt pavement as a contractor option is incidental to the Asphaltic Repair bid item.
- (3) The department will pay separately for tack coat under the Tack Coat bid item as specified in 455.5.  
SER-390-001 (20220408)

## **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:*

**108 Prosecution and Progress**

*Add subsection 108.9.4.1 effective with the November 2023 letting:*

**108.9.4.1 Winter Suspension for Completion Date Contracts**

- (1) The contractor may request a winter suspension for a completion date contract. If the department determines weather conditions do not allow for the completion of the remaining work, the department may approve the contractor’s request and determine the start date of the winter suspension. The end date of the winter suspension is March 31 or a date mutually agreed upon by both parties. For multi-year contracts, the department will only consider winter suspension for the final year of the contract.
- (2) During winter suspension, store all materials in a manner that does not obstruct vehicular and pedestrian traffic and protect the materials from damage. Install traffic control and other safety devices necessary to protect the traveling public and pedestrians. Provide suitable drainage and install temporary erosion control where necessary. If the winter suspension begins when liquidated damages are being assessed, or when the work has not progressed as scheduled and would not have been completed prior to the completion date, the cost of necessary pre-suspension work is incidental. If the winter suspension begins prior to the contract completion date, and the work has progressed as scheduled and would have been completed prior to the completion date, the cost of pre-suspension work will be paid as specified under 109.4.
- (3) For a winter suspension that begins prior to the contract completion date and the work has progressed as scheduled and would have been completed prior to the completion date, the engineer will extend contract time to correspond with the end of the winter suspension and liquidated damages will not be assessed during the winter suspension.
- (4) For a winter suspension that begins when liquidated damages are being assessed or when the work has not progressed as scheduled and would not have been completed prior to the completion date, the engineer will not extend contract time. Time will be suspended until the end of the winter suspension. Liquidated damages will not be assessed during the winter suspension and liquidated damages will resume at the end of the winter suspension.

**310 Open Graded Base**

**310.2 Materials**

*Replace paragraph two with the following effective with the November 2023 letting:*

- (2) The contractor may substitute material conforming to the gradation requirements for crushed aggregate specified in Table 310-01 if that material conforms to the fracture requirements for open-graded crushed gravel specified in 301.2.4.5.

**TABLE 310-01 COARSE AGGREGATE (% passing by weight)**

SEIVE	AASHTO No. 67 <sup>[1]</sup> COARSE AGGREGATE (% PASSING by WEIGHT) AASHTO No. 67
2-inch	-
1 1/2-inch	-
1-inch	100
3/4-inch	90 – 100
1/2-inch	-
3/8-inch	20 – 55
No. 4	0 – 10
No. 8	0 – 5
No. 16	-
No. 30	-

No. 50	-
No. 100	-
No. 200	<=1.5

[1] Size according to AASHTO M43.

**390 Base Patching**

**390.4 Measurement**

*Replace entire section with the following effective with the November 2023 letting:*

- (1) The department will measure Removing Pavement for Base Patching by the cubic yard acceptably completed. Measure the depth from the bottom of the adjacent pavement to the top of the patch.
- (2) The department will measure Base Patching Asphaltic by the ton acceptably completed as specified for asphaltic pavement in 450.4.
- (3) The department will measure Base Patching Concrete HES and Base Patching Concrete SHES by the cubic yard acceptably completed. Measure the depth from the bottom of the adjacent pavement to the top of the patch.

**390.5 Payment**

*Replace entire section with the following effective with the November 2023 letting:*

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

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
390.0100	Removing Pavement for Base Patching	CY
390.0201	Base Patching Asphaltic	TON
390.0305	Base Patching Concrete HES	CY
390.0405	Base Patching Concrete SHES	CY

- (2) Payment for Removing Pavement for Base Patching is full compensation for removing old pavement; for preparing the foundation and bringing up to grade. If the engineer orders the contractor to excavate yielding or unstable subgrade materials and backfill with suitable materials, the department will pay for that work with contract bid items or as agreed upon using 109.4.
- (3) Payment for Base Patching Asphaltic is full compensation for providing and compacting asphaltic mixture including asphaltic binder.
- (4) Payment for Base Patching Concrete HES and Base Patching Concrete SHES is full compensation for providing, curing, and protecting concrete. Payment also includes providing tie bars and dowel bars in unhardened concrete and steel within the patch. For tie bars and dowel bars provided in concrete not placed under the contract, the department will pay separately under the Drilled Tie Bars and Drilled Dowel Bars bid items as specified in 416.5.
- (5) Payment for Base Patching SHES also includes providing test data to the engineer as specified in 416.2.4.
- (6) The department will pay for sawing existing concrete pavement for removal under the Sawing Concrete bid item as specified in 690.5.

**460 Hot Mix Asphalt Pavement**

**460.2.8.2.1.3.1 Contracts with 5000 Tons of Mixture or Greater**

*Replace paragraph four with the following effective with the November 2023 letting:*

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

Blended aggregate gradations:

Drum plants:

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

Batch plants:

- Field extraction by ignition oven according to WTM T308, chemical extraction according to AASHTO T-164 method A or B; or automated extraction according to WTM D8159. Gradation of resulting aggregate sample determined according to WTM T30.

Asphalt content (AC) in percent:

Determine AC using one of the following methods:

- AC by ignition oven according to WTM T308.
- AC by chemical extraction according to AASHTO T-164 method A or B.
- AC by automated extraction according to WTM D8159.
- If the department is using an ignition oven to determine AC, conform to WTP H003.
- If the department is not using an ignition oven to determine AC, ignition oven correction factor (IOCF) must still be reverified for any of the reasons listed in WTP H003 Table 2 and conform to WTP H-003 sections 3 through 6.
- Gradation of resulting aggregate sample determined according to WTM T30.

Bulk specific gravity of the compacted mixture:

According to WTM T166.

Theoretical maximum specific gravity:

According to WTM T209.

Air voids ( $V_a$ ) by calculation according to WTM T269.

VMA by calculation according to WTM R35.

#### **460.2.8.3.1.4 Department Verification Testing Requirements**

Replace paragraph three with the following effective with the November 2023 letting:

- (3) The department will perform testing conforming to the following standards:

Bulk specific gravity ( $G_{mb}$ ) of the compacted mixture according to WTM T166.

Maximum specific gravity ( $G_{mm}$ ) according to WTM T209.

Air voids ( $V_a$ ) by calculation according to WTM T269.

VMA by calculation according to WTM R35.

Asphalt content by ignition oven according to WTM T308, chemical extraction according to AASHTO T-164 method A or B, or automated extraction according to WTM D8159. If using an ignition oven to determine AC, conform to WTP H-003.

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### **503 Prestressed Concrete Members**

#### **503.2.2 Concrete**

Replace paragraph five with the following effective with the November 2023 letting:

- (5) Furnish prestressed concrete members cast from air-entrained concrete, except I-type girders may use non-air-entrained concrete. Use type I, IL, IS, IP, IT, II, or III cement. The contractor may replace up to 30 percent of type I, IL, II, or III cement with an equal weight of fly ash, slag, or a combination of fly ash and slag. Ensure that fly ash conforms to 501.2.4.2.2 and slag conforms to 501.2.4.2.3. Use only one source and replacement rate for work under a single bid item. Use a department-approved air-entraining admixture conforming to 501.2.5.2 for air-entrained concrete. Use only coarse aggregate conforming to 310.2(2).

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### **604 Slope Paving**

#### **604.2 Materials**

Replace paragraph three with the following effective with the November 2023 letting:

- (3) Under the Slope Paving Crushed Aggregate bid item, furnish crushed stone or crushed gravel conforming to the gradation in Table 604-01, but with the additional requirements that at least 75 percent of the particles, by count, have at least one fractured face. Determine fracture according to WTM D5821.

**TABLE 604-01 COARSE AGGREGATE (% passing by weight)**

<b>AASHTO No. 4<sup>[1]</sup></b>	
SEIVE	COARSE AGGREGATE (% PASSING by WEIGHT) AASHTO No. 4
2-inch	100
1 1/2-inch	90 - 100
1-inch	20 - 55
3/4-inch	0 - 15
1/2-inch	-
3/8-inch	0 - 5
No. 4	-
No. 8	-
No. 16	-
No. 30	-
No. 50	-
No. 100	-
No. 200	<=1.5

[1] Size according to AASHTO M43.

**612 Underdrains**

**612.3.9 Trench Underdrains**

*Replace paragraph one with the following effective with the November 2023 letting:*

- (1) Under the Underdrain Trench bid item, excavate and backfill underdrain trenches. Backfill with coarse aggregate gradation conforming to 604.2(3). Before backfilling place geotextile as the plans show.

**614 Semi-rigid Barrier Systems and End Treatments**

**614.2.6 Sand Barrel Arrays**

*Replace paragraph one with the following effective with the November 2023 letting:*

- (1) Furnish sand barrels from the APL. Use fine aggregate conforming to gradation shown in Table 614-2 mixed with sodium chloride conforming to AASHTO M143. Apply an object marker to front-most barrel in the array.

**TABLE 614-2 FINE AGGREGATE GRADATION**

SEIVE	FINE AGGREGATE (% PASSING by WEIGHT)
3/8-inch	100
No. 4	90 - 100
No. 8	-
No. 16	45 - 85
No. 30	-
No. 50	5 - 30
No. 100	0 - 10
No. 200	<=3.5

**628 Erosion Control****628.2.13 Rock Bags**

*Replace paragraph two with the following effective with the November 2023 letting:*

- (2) Fill the bags with a clean, sound, hard, durable, engineer-approved coarse aggregate conforming by visual inspection to the gradation specified for coarse aggregate gradation in 604.2(3).

**639 Drilling Wells****639.2.1 General**

*Replace paragraph two with the following effective with the November 2023 letting:*

- (2) For grout use fine aggregate conforming to 501.2.7.2; and gradation conforming to 614.2.6(1); and type I, IL, IS, IP, or IT cement.

**652 Electrical Conduit****652.3.1.2 Installing Underground**

*Replace paragraph two with the following effective with the November 2023 letting:*

- (2) Excavate trenches true to line and grade to provide the conduit uniform bearing throughout its length. Do not backfill the trench before inspecting the conduit. Carefully tamp the backfill in place as specified for placing backfill in layers in 651.3. Place at least 0.7 cubic feet of coarse aggregate gradation conforming to 604.2(3) directly under each drainage hole.

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**ERRATA**

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**390.3.4 Special High Early Strength Concrete Patching**

*Correct errata link in paragraph (1) by changing from 416.3.8 to 416.3.7.*

- (1) Construct as specified for special high early strength repairs under [416.3.7](#) except as follows:
  - The contractor may delay removal for up to 14 calendar days after cutting the existing pavement.
  - Open to traffic as specified for concrete base in [320.3](#).

## 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) to electronically submit certified payroll reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's highway construction contractor information (HCCI) site on the Labor, Wages, and EEO Information page at:  
<https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>
  
- (2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.
  
- (3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS training as they are about to begin their submittals. The department will provide training either in a classroom setting at one of our regional offices or by telephone. Contact Paul Ndon at (414) 438-4584 to schedule the training.
  
- (4) The department will reject all paper submittals for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.
  
- (5) Firms wishing to export payroll/labor data from their computer system into CRCS should have their payroll coordinator contact Paul Ndon at [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov). Not every contractor's payroll system is capable of producing export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at:  
<https://wisconsindot.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>

## NON-DISCRIMINATION PROVISIONS

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

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

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

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

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

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

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

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

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

**Pertinent Non-Discrimination Authorities:**

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures Non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of Limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

## BUY AMERICA PROVISION

Buy America (as documented in M-22-11 from the Office of Management and Budget: <https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf>) 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 smelting forward in the manufacturing process) must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America.

The exemption of 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 OMB M-22-11 and as referenced in CMM 228.5) must comply with Buy America. No exemptions (0.0%) are allowed.

The contractor shall take actions and provide documentation conforming to CMM 228.5 to ensure compliance with this Buy America provision.

<https://wisconsin.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://wisconsin.gov/Documents/formdocs/dt4567.docx>

Attach a list of iron or steel exemptions and their associated costs to the certification form.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0002	108.4400 CPM Progress Schedule	1.000 EACH	_____.	_____.
0004	204.0100 Removing Concrete Pavement	720.000 SY	_____.	_____.
0006	204.0105 Removing Concrete Pavement Butt Joints	463.000 SY	_____.	_____.
0008	204.0110 Removing Asphaltic Surface	1,104.000 SY	_____.	_____.
0010	204.0115 Removing Asphaltic Surface Butt Joints	629.000 SY	_____.	_____.
0012	204.0125 Removing Asphaltic Surface Milling	7,014.000 TON	_____.	_____.
0014	204.0150 Removing Curb & Gutter	4,572.000 LF	_____.	_____.
0016	204.0155 Removing Concrete Sidewalk	1,090.000 SY	_____.	_____.
0018	204.0195 Removing Concrete Bases	11.000 EACH	_____.	_____.
0020	204.0220 Removing Inlets	7.000 EACH	_____.	_____.
0022	204.0245 Removing Storm Sewer (size) 001. 18-Inch	60.000 LF	_____.	_____.
0024	204.0245 Removing Storm Sewer (size) 002. 24-Inch	16.000 LF	_____.	_____.
0026	204.0291.S Abandoning Sewer	1.600 CY	_____.	_____.
0028	204.9060.S Removing (item description) 001. Traffic Signals USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0030	204.9060.S Removing (item description) 002. Loop Detector Wire & Lead-In Cable USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0032	204.9060.S Removing (item description) 003. Loop Detector Wire & Lead-In Cable USH 45/STH 28 & STH 28 (Main St)	1.000 EACH	_____.	_____.
0034	205.0100 Excavation Common	360.000 CY	_____.	_____.
0036	209.2500 Backfill Granular Grade 2	130.000 TON	_____.	_____.
0038	211.0101 Prepare Foundation for Asphaltic Paving (project) 001. 4070-00-70	1.000 EACH	_____.	_____.
0040	213.0100 Finishing Roadway (project) 001. 4070-00-70	1.000 EACH	_____.	_____.
0042	305.0110 Base Aggregate Dense 3/4-Inch	10.000 TON	_____.	_____.
0044	305.0120 Base Aggregate Dense 1 1/4-Inch	321.000 TON	_____.	_____.
0046	320.0125 Concrete Base 6-Inch	589.000 SY	_____.	_____.
0048	390.0100 Removing Pavement for Base Patching	166.500 CY	_____.	_____.
0050	390.0305 Base Patching Concrete HES	153.900 CY	_____.	_____.
0052	390.0405 Base Patching Concrete SHES	12.600 CY	_____.	_____.
0054	416.0610 Drilled Tie Bars	1,053.000 EACH	_____.	_____.
0056	416.0620 Drilled Dowel Bars	596.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0058	450.4000 HMA Cold Weather Paving	1,069.000 TON	_____	_____
0060	455.0605 Tack Coat	5,202.000 GAL	_____	_____
0062	460.2000 Incentive Density HMA Pavement	6,062.000 DOL	1.00000	6,062.00
0064	460.6223 HMA Pavement 3 MT 58-28 S	5,362.000 TON	_____	_____
0066	460.6224 HMA Pavement 4 MT 58-28 S	3,963.000 TON	_____	_____
0068	465.0105 Asphaltic Surface	4.000 TON	_____	_____
0070	465.0110 Asphaltic Surface Patching	80.000 TON	_____	_____
0072	465.0120 Asphaltic Surface Driveways and Field Entrances	58.000 TON	_____	_____
0074	520.8000 Concrete Collars for Pipe	1.000 EACH	_____	_____
0076	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	2.000 EACH	_____	_____
0078	601.0409 Concrete Curb & Gutter 30-Inch Type A	2,069.000 LF	_____	_____
0080	601.0411 Concrete Curb & Gutter 30-Inch Type D	808.000 LF	_____	_____
0082	601.0600 Concrete Curb Pedestrian	88.000 LF	_____	_____
0084	602.0410 Concrete Sidewalk 5-Inch	10,247.000 SF	_____	_____
0086	602.0420 Concrete Sidewalk 7-Inch	709.000 SF	_____	_____



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0088	602.0505 Curb Ramp Detectable Warning Field Yellow	650.000 SF	_____.	_____.
0090	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	18.000 SF	_____.	_____.
0092	602.0815 Concrete Driveway 7-Inch	134.000 SY	_____.	_____.
0094	606.0200 Riprap Medium	4.000 CY	_____.	_____.
0096	608.0248 Storm Sewer Pipe Reinforced Concrete Class II 48-Inch	17.000 LF	_____.	_____.
0098	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	68.000 LF	_____.	_____.
0100	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	87.000 LF	_____.	_____.
0102	611.0420 Reconstructing Manholes	1.000 EACH	_____.	_____.
0104	611.0430 Reconstructing Inlets	3.000 EACH	_____.	_____.
0106	611.0530 Manhole Covers Type J	1.000 EACH	_____.	_____.
0108	611.0603 Inlet Covers Type A-S	4.000 EACH	_____.	_____.
0110	611.0639 Inlet Covers Type H-S	7.000 EACH	_____.	_____.
0112	611.2006 Manholes 6-FT Diameter	1.000 EACH	_____.	_____.
0114	611.2007 Manholes 7-FT Diameter	1.000 EACH	_____.	_____.
0116	611.3004 Inlets 4-FT Diameter	1.000 EACH	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0118	611.3230 Inlets 2x3-FT	5.000 EACH	_____.	_____.
0120	611.8110 Adjusting Manhole Covers	17.000 EACH	_____.	_____.
0122	611.8115 Adjusting Inlet Covers	33.000 EACH	_____.	_____.
0124	611.8120.S Cover Plates Temporary	18.000 EACH	_____.	_____.
0126	611.9710 Salvaged Inlet Covers	7.000 EACH	_____.	_____.
0128	618.0100 Maintenance And Repair of Haul Roads (project) 001. 4070-00-70	1.000 EACH	_____.	_____.
0130	619.1000 Mobilization	1.000 EACH	_____.	_____.
0132	624.0100 Water	5.000 MGAL	_____.	_____.
0134	625.0100 Topsoil	1,171.000 SY	_____.	_____.
0136	628.1504 Silt Fence	535.000 LF	_____.	_____.
0138	628.1520 Silt Fence Maintenance	2,675.000 LF	_____.	_____.
0140	628.1905 Mobilizations Erosion Control	12.000 EACH	_____.	_____.
0142	628.1910 Mobilizations Emergency Erosion Control	6.000 EACH	_____.	_____.
0144	628.2008 Erosion Mat Urban Class I Type B	64.000 SY	_____.	_____.
0146	628.7005 Inlet Protection Type A	2.000 EACH	_____.	_____.
0148	628.7010 Inlet Protection Type B	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0150	628.7015 Inlet Protection Type C	58.000 EACH	_____.	_____.
0152	628.7020 Inlet Protection Type D	3.000 EACH	_____.	_____.
0154	629.0210 Fertilizer Type B	7.000 CWT	_____.	_____.
0156	630.0160 Seeding Mixture No. 60	1.000 LB	_____.	_____.
0158	630.0200 Seeding Temporary	30.000 LB	_____.	_____.
0160	631.0300 Sod Water	2.600 MGAL	_____.	_____.
0162	631.1000 Sod Lawn	1,171.000 SY	_____.	_____.
0164	633.5200 Markers Culvert End	2.000 EACH	_____.	_____.
0166	634.0618 Posts Wood 4x6-Inch X 18-FT	19.000 EACH	_____.	_____.
0168	634.0814 Posts Tubular Steel 2x2-Inch X 14-FT	16.000 EACH	_____.	_____.
0170	637.2210 Signs Type II Reflective H	365.650 SF	_____.	_____.
0172	637.2215 Signs Type II Reflective H Folding	31.080 SF	_____.	_____.
0174	637.2230 Signs Type II Reflective F	147.750 SF	_____.	_____.
0176	638.2102 Moving Signs Type II	5.000 EACH	_____.	_____.
0178	638.2602 Removing Signs Type II	81.000 EACH	_____.	_____.
0180	638.3000 Removing Small Sign Supports	36.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0182	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
0184	643.0300 Traffic Control Drums	40,490.000 DAY	_____.	_____.
0186	643.0420 Traffic Control Barricades Type III	7,995.000 DAY	_____.	_____.
0188	643.0705 Traffic Control Warning Lights Type A	19,252.000 DAY	_____.	_____.
0190	643.0715 Traffic Control Warning Lights Type C	2,800.000 DAY	_____.	_____.
0192	643.0800 Traffic Control Arrow Boards	106.000 DAY	_____.	_____.
0194	643.0900 Traffic Control Signs	69,672.000 DAY	_____.	_____.
0196	643.0920 Traffic Control Covering Signs Type II	76.000 EACH	_____.	_____.
0198	643.1000 Traffic Control Signs Fixed Message	144.000 SF	_____.	_____.
0200	643.1050 Traffic Control Signs PCMS	28.000 DAY	_____.	_____.
0202	643.3105 Temporary Marking Line Paint 4-Inch	13,190.000 LF	_____.	_____.
0204	643.3150 Temporary Marking Line Removable Tape 4-Inch	13,780.000 LF	_____.	_____.
0206	643.3205 Temporary Marking Line Paint 8-Inch	397.000 LF	_____.	_____.
0208	643.3820 Temporary Marking Stop Line Epoxy 18-Inch	105.000 LF	_____.	_____.
0210	643.3850 Temporary Marking Stop Line Removable Tape 18-Inch	129.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0212	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0214	644.1410 Temporary Pedestrian Surface Asphalt	1,678.000 SF	_____.	_____.
0216	644.1601 Temporary Pedestrian Curb Ramp	14.000 DAY	_____.	_____.
0218	644.1605 Temporary Pedestrian Detectable Warning Field	140.000 SF	_____.	_____.
0220	644.1810 Temporary Pedestrian Barricade	2,473.000 LF	_____.	_____.
0222	645.0120 Geotextile Type HR	27.000 SY	_____.	_____.
0224	646.2020 Marking Line Epoxy 6-Inch	19,717.000 LF	_____.	_____.
0226	646.4020 Marking Line Epoxy 10-Inch	938.000 LF	_____.	_____.
0228	646.5020 Marking Arrow Epoxy	16.000 EACH	_____.	_____.
0230	646.5120 Marking Word Epoxy	5.000 EACH	_____.	_____.
0232	646.6120 Marking Stop Line Epoxy 18-Inch	393.000 LF	_____.	_____.
0234	646.6466 Cold Weather Marking Epoxy 6-Inch	19,717.000 LF	_____.	_____.
0236	646.6470 Cold Weather Marking Epoxy 10-Inch	938.000 LF	_____.	_____.
0238	646.7120 Marking Diagonal Epoxy 12-Inch	453.000 LF	_____.	_____.
0240	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	2,276.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0242	646.7520 Marking Crosswalk Epoxy Block Style 24-Inch	60.000 LF	_____.	_____.
0244	646.8120 Marking Curb Epoxy	38.000 LF	_____.	_____.
0246	646.8220 Marking Island Nose Epoxy	1.000 EACH	_____.	_____.
0248	646.9000 Marking Removal Line 4-Inch	2,200.000 LF	_____.	_____.
0250	646.9100 Marking Removal Line 8-Inch	450.000 LF	_____.	_____.
0252	646.9300 Marking Removal Special Marking	5.000 EACH	_____.	_____.
0254	650.4000 Construction Staking Storm Sewer	3.000 EACH	_____.	_____.
0256	650.5500 Construction Staking Curb Gutter and Curb & Gutter	3,800.000 LF	_____.	_____.
0258	650.6000 Construction Staking Pipe Culverts	1.000 EACH	_____.	_____.
0260	650.8000 Construction Staking Resurfacing Reference	6,335.000 LF	_____.	_____.
0262	650.8501 Construction Staking Electrical Installations (project) 001. 4070-00-70	1.000 EACH	_____.	_____.
0264	650.9000 Construction Staking Curb Ramps	46.000 EACH	_____.	_____.
0266	650.9911 Construction Staking Supplemental Control (project) 001. 4070-00-70	1.000 EACH	_____.	_____.
0268	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	172.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0270	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	187.000 LF	_____.	_____.
0272	652.0700.S Install Conduit into Existing Item	4.000 EACH	_____.	_____.
0274	652.0800 Conduit Loop Detector	878.000 LF	_____.	_____.
0276	653.0135 Pull Boxes Steel 24x36-Inch	3.000 EACH	_____.	_____.
0278	653.0140 Pull Boxes Steel 24x42-Inch	2.000 EACH	_____.	_____.
0280	653.0900 Adjusting Pull Boxes	2.000 EACH	_____.	_____.
0282	653.0905 Removing Pull Boxes	3.000 EACH	_____.	_____.
0284	654.0101 Concrete Bases Type 1	10.000 EACH	_____.	_____.
0286	654.0105 Concrete Bases Type 5	1.000 EACH	_____.	_____.
0288	654.0110 Concrete Bases Type 10	1.000 EACH	_____.	_____.
0290	654.0120 Concrete Bases Type 10-Special	1.000 EACH	_____.	_____.
0292	654.0217 Concrete Control Cabinet Bases Type 9 Special	1.000 EACH	_____.	_____.
0294	655.0230 Cable Traffic Signal 5-14 AWG	387.000 LF	_____.	_____.
0296	655.0240 Cable Traffic Signal 7-14 AWG	1,844.000 LF	_____.	_____.
0298	655.0260 Cable Traffic Signal 12-14 AWG	529.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0300	655.0320 Cable Type UF 2-10 AWG Grounded	546.000 LF	_____.	_____.
0302	655.0515 Electrical Wire Traffic Signals 10 AWG	1,529.000 LF	_____.	_____.
0304	655.0610 Electrical Wire Lighting 12 AWG	405.000 LF	_____.	_____.
0306	655.0700 Loop Detector Lead In Cable	3,071.000 LF	_____.	_____.
0308	655.0800 Loop Detector Wire	2,696.000 LF	_____.	_____.
0310	656.0201 Electrical Service Meter Breaker Pedestal (location) 001. USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0312	657.0100 Pedestal Bases	10.000 EACH	_____.	_____.
0314	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	1.000 EACH	_____.	_____.
0316	657.0322 Poles Type 5-Aluminum	1.000 EACH	_____.	_____.
0318	657.0405 Traffic Signal Standards Aluminum 3.5-FT	1.000 EACH	_____.	_____.
0320	657.0420 Traffic Signal Standards Aluminum 13-FT	4.000 EACH	_____.	_____.
0322	657.0425 Traffic Signal Standards Aluminum 15-FT	1.000 EACH	_____.	_____.
0324	657.0430 Traffic Signal Standards Aluminum 10-FT	4.000 EACH	_____.	_____.
0326	657.0610 Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	1.000 EACH	_____.	_____.
0328	658.0173 Traffic Signal Face 3S 12-Inch	9.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0330	658.0174 Traffic Signal Face 4S 12-Inch	2.000 EACH	_____.	_____.
0332	658.0416 Pedestrian Signal Face 16-Inch	6.000 EACH	_____.	_____.
0334	658.5070 Signal Mounting Hardware (location) 001. USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0336	659.1125 Luminaires Utility LED C	3.000 EACH	_____.	_____.
0338	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	22.000 EACH	_____.	_____.
0340	661.0201 Temporary Traffic Signals for Intersections (location) 001. USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0342	677.0200 Install Camera Assembly	1.000 EACH	_____.	_____.
0344	690.0150 Sawing Asphalt	1,625.000 LF	_____.	_____.
0346	690.0250 Sawing Concrete	7,984.000 LF	_____.	_____.
0348	740.0440 Incentive IRI Ride	9,600.000 DOL	1.00000	9,600.00
0350	SPV.0060 Special 001. Rectangular Rapid Flash Beacon System USH 45 NB North Ave Assembly	1.000 EACH	_____.	_____.
0352	SPV.0060 Special 002. Rectangular Rapid Flash Beacon System USH 45 SB North Ave Assembly	1.000 EACH	_____.	_____.
0354	SPV.0060 Special 003. Curb Ramp Grading, Shaping And Finishing	66.000 EACH	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0356	SPV.0060 Special 004. Drainage Structure Repair and Cleaning	19.000 EACH	_____.	_____.
0358	SPV.0060 Special 005. Reconnect Storm Sewer	2.000 EACH	_____.	_____.
0360	SPV.0060 Special 006. Utility Line Opening	19.000 EACH	_____.	_____.
0362	SPV.0060 Special 008. Install Poles Type 10	1.000 EACH	_____.	_____.
0364	SPV.0060 Special 009. Install Poles Type 10 Special	1.000 EACH	_____.	_____.
0366	SPV.0060 Special 010. Install Monotube Arms 30-Ft	1.000 EACH	_____.	_____.
0368	SPV.0060 Special 011. Install Monotube Arms 45-Ft Type 9/10 Spec Pole	1.000 EACH	_____.	_____.
0370	SPV.0060 Special 012. Install Luminaire Arms Steel 15-Ft	2.000 EACH	_____.	_____.
0372	SPV.0060 Special 013. Temporary Accessible Ped Signal System USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0374	SPV.0060 Special 014. Trnspt & Install State Furn Traffic Signal Cabinet USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0376	SPV.0060 Special 015. Trnspt & Install State Furn Radar Detect Sys USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0378	SPV.0060 Special 016. Trnspt Traffic Signal & Inter Lighting Materials USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114048 Project(s): 4070-00-70

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
0380	SPV.0060 Special 017. Trnspt & Install State Furn Audible Ped Signal System USH 45/CTH H & CTH H West	1.000 EACH	_____.	_____.
0382	SPV.0090 Special 001. Concrete Curb and Gutter 30-Inch Type A Special	1,480.000 LF	_____.	_____.
0384	SPV.0090 Special 002. Marking Removal Curb Marking	18.000 LF	_____.	_____.
0386	SPV.0090 Special 003. Concrete Joint and Crack Cleaning and Repair	8,888.000 LF	_____.	_____.
0388	SPV.0090 Special 004. Remove, Store, and Reinstall Chain Link Fence Fabric	276.000 LF	_____.	_____.
0390	SPV.0195 Special 001. Asphaltic Repair	123.000 TON	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

**PLEASE ATTACH ADDENDA HERE**





## Wisconsin Department of Transportation

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November 8, 2023

**Division of Transportation Systems  
Development**

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

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

### **NOTICE TO ALL CONTRACTORS:**

#### **Buy America Provision Addendum #01**

#### **Letting of November 14, 2023**

Attached is a copy of the revised Buy America Provision that are included in all proposals in the November 14, 2023 letting.

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

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

## 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://wisconsin.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://wisconsin.gov/Documents/formdocs/dt4567.docx>

Attach a list of iron or steel and construction material exemptions and their associated costs to the certification form.

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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 assistance 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).



## Wisconsin Department of Transportation

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November 7, 2023

**Division of Transportation Systems  
Development**

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

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

### NOTICE TO ALL CONTRACTORS:

**Proposal #48: 4070-00-70**  
**Fond Du Lac Avenue**  
**WB CTH H to WB STH 28**  
**USH 45**  
**Washington County**

### Letting of November 14, 2023

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

#### Plan Sheets:

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
182A	Provides the missing information for rim elevations, invert elevations, and pipe diameters and inverts available for the existing storm sewer.

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

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

END OF ADDENDUM

**STORM SEWER STRUCTURES**

611.3004\*\*\*\* 611.2006\*\*\*\* 611.3230\*\*\*\*

CATEGORY	LOCATION	STATION	OFFSET*	INLETS 4-FT DIAMETER		MANHOLES 6-FT		INLETS 2X3-FT		RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT	NOTES
				EACH	EACH	EACH	EACH	EACH	EACH				
0010	CLINTON ST R/L	30+20	15.7' LT	1	-	-	-	-	-	943.03	939.36	2.84	SE IE = 939.36' (10" RCCP) / W IE = 939.36' (10" RCCP)
	FOREST AVE R/L	39+78	16.1' LT	--	-	-	-	1	-	952.09	949.00	2.26	SE IE = 949.00' (10" RCCP)
	FOREST AVE R/L	39+82	15.0' RT	--	-	-	-	1	-	952.37	948.67	2.87	NW IE = 948.67' (10" RCCP)
	2ND ST R/L	45+60	18.6' LT	--	1	-	-	-	-	955.60	951.27	3.50	N IE = 951.27' (10" RCCP) / SE IE = 951.47' (10" RCCP) / S IE = 951.27' (12" RCCP)
	2ND ST R/L	45+91	26.5' RT	--	-	-	-	1	-	954.72	951.69	2.20	NE IE = 951.69' (10" RCCP)
	NORTH AVE R/L	46+63	16.3' LT	--	-	-	-	1	-	956.02	952.90	2.29	S IE = 953.00 (4" PVC) / NW IE = 952.90' (10" RCCP)
	NORTH AVE R/L	46+73	16.2' RT	--	-	-	-	1	-	956.20	952.56	2.81	SE IE = 952.56' (10" RCCP)

REMARKS  
 \* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURES UNLESS OTHERWISE NOTED  
 \*\* THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE  
 \*\*\* DEPTH = RIM ELEV (FLOWLINE) - INVERT ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT  
 \*\*\*\* FOR INFORMATION ONLY - QUANTITIES SHOWN IN STORM SEWER SUMMARY TABLE

Addendum No. 01  
 ID 4070-00-70  
 Added Sheet 182A  
 November 7, 2023