

# HIGHWAY WORK PROPOSAL

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

Proposal Number: **047**

<u>STATE ID</u>	<u>FEDERAL ID</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>	<u>COUNTY</u>
1535-07-73	N/A	Mondovi - Osseo, Nelson Rd to IH 94 WB Ramps	USH 010	Trempealeau
1535-07-74	N/A	Mondovi - Osseo, Nelson Rd to IH 94	USH 010	Trempealeau

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: \$100,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: February 11, 2025 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code  <div style="text-align: center;"> <b>SAMPLE</b>  <b>NOT FOR BIDDING PURPOSES</b> </div> This contract is exempt from federal oversight.
Contract Completion Time 95 Working Days	
Assigned Disadvantaged Business Enterprise Goal <b>0%</b>	

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

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

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

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

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

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

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

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

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

Notary Seal

<b>Type of Work:</b> Removals, Grading, Aggregate, Concrete Pavement, Asphalt Pavement, Structure Rehabilitation, Culvert Pipe, Curb and Gutter, Concrete Sidewalk, Storm Sewer, Beam Guard, Erosion Control, Permanent Signing, Traffic Control, Pavement Marking, Sanitary, Water, Restoration.	<b>For Department Use Only</b>
Notice of Award Dated	Date Guaranty Returned

**PLEASE ATTACH  
PROPOSAL GUARANTY HERE**

## PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

## BID PREPARATION

### Preparing the Proposal Schedule of Items

#### A. General

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

<https://wisconsin.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

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

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

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

- (5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.
- (6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:

<https://wisconsin.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx>

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

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

## B. Submitting Electronic Bids

### B.1 On the Internet

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

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

- (1) Download the latest schedule of items from the Wisconsin pages of the Bid Express web site reflecting the latest addenda posted on the department's web site at:  
<https://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™ generated schedule of items is not the same on each page.
  2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.
  3. The diskette or CD ROM is not submitted at the time and place the department designates.

#### **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**

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

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

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

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

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

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

**Notary Seal**

**NOTARY FOR SURETY**

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

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

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

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

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

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

**Notary Seal**

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



# CERTIFICATE OF ANNUAL BID BOND

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.

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**STSP'S Revised July 3, 2024**

**SPECIAL PROVISIONS**

**1. General.**

Perform the work under this construction contract for Project 1535-07-73, Mondovi - Osseo, Nelson Rd to IH 94 WB Ramps, USH 10, Trempealeau County; and Project 1535-07-74, Mondovi - Osseo, Nelson Rd to IH 94, USH 10, Trempealeau County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2025 Edition, as published by the department, and these special provisions.

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

100-005 (20240703)

**2. Scope of Work.**

The work under this contract shall consist of removing asphaltic surface milling, common excavation, base aggregate dense, concrete pavement, structure work B-61-282 will include concrete surface repair and concrete overlay. Underground work will include replacement of sanitary sewer, water main, storm sewer 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.

Provide the time frame for construction of the project within the 2025 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within 10 calendar days before the beginning of the approved time frame.

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

**Migratory Birds**

Swallow or other migratory bird nests have been observed on or under the existing structure(s). All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act. The nesting season for swallows and other birds is from April 15 to August 31.

See below for information on affected structure(s). As a last resort, apply for a depredation permit from the US Fish and Wildlife Service for work that may disturb or destroy active nests. The need for a permit may be avoided by removing the existing bridge structure prior to nest occupation by birds or clearing nests from all structures before the nests become active in early spring.

Either prevent active nests from becoming established or prevent birds from nesting by installing and/or maintaining one suitable deterrent device on the following structure(s) prior to nesting activity under the bid item Installing and Maintaining Bird Deterrent System:

- B-61-282

**Fish Spawning**

There shall be no instream disturbance of the North Fork of the Buffalo River at Station 14+23 as a result of construction activity under or for this contract, from September 15 to May 15 both dates inclusive, in order to avoid adverse impacts upon the spawning of trout.

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.

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

Northern long-eared bats (*Myotis septentrionalis*, or 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.

The department has contracted with others and will perform the following operations after October 31 and prior to April 1:

- Cutting down and removing trees.

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

### **Oak Wilt**

To prevent the spread of oak wilt disease, cutting or pruning of oaks shall not occur between April 1 and September 30.

## **4. Traffic.**

### **General**

USH 10 will be closed to through traffic from Nelson Road to Rose Lane.

Submit to the engineer for approval a detailed traffic control plan for any changes to the proposed traffic control plan shown in the plans. Submit the plan 14 days prior to the Pre-Construction Conference, or if after the Pre-Construction Conference, 14 days prior to the intended use of the revised traffic control.

Flagging is permitted along USH 10, except during any of the periods below under the article Holiday and Special Event Work Restrictions.

### **Detour**

Install the detour and close USH 10 to through traffic from Nelson Road to Rose Lane, both intersections excluded. Do not remove the detour until the USH 10 concrete pavement and necessary traffic control items are installed.

### **Vehicle Access During Construction**

Local access shall be maintained for residents, businesses, and emergency vehicles. Maintain ramped driveway access at a minimum slope of 12% on existing driveway surface, compacted base aggregate dense, or finished driveway surface. Notify the property resident or business a minimum of 72 hours in advance of driveway reconstruction to verify closure or staged driveway construction methods. Do not fully close commercial driveways without the approval of the property owner and the engineer. Construct commercial driveways in halves or by closing one access at a time for properties that have multiple driveways.

Maintain through traffic on Main Street and East Street during Stage 1.



## Pedestrian Access During Construction

Accommodate pedestrians at all times. Maintain pedestrian access throughout the project as shown in the traffic control plan unless otherwise approved in writing by the engineer. The engineer shall not allow sidewalk or a curb ramp to be closed to pedestrians unless a temporary pedestrian access route is in place.

At locations where pedestrian access is maintained, provide temporary means to prevent grade differences greater than ¼-inch. Bridge vertical differences using slopes of 12:1 or flatter.

Maintain through access for the Buffalo River State Park Trail at all times. Access shall be maintained on a compacted base aggregate dense, temporary matting, or paved surface.

## Advance Notification

Notify Trempealeau County EMS, Trempealeau County Sheriff's Department, Trempealeau County Dispatch, and Trempealeau County Highway Commissioner 72 hours in advance of all changes to traffic configurations and closures. Notifications must be given by 4:00 PM on Wednesday for any such work to be done on the following Monday.

## PCMS Prewarn

Place Portable Changeable Message Signs (PCMS) 7 days prior to construction. See plans for department approved messages to be displayed on each PCMS.

## 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.

## 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 10 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, May 23, 2025 to 6:00 AM Tuesday, May 27, 2025 for Memorial Day;
- From noon Friday, June 13, 2025 to 6:00 AM Monday, June 16, 2025 for Lake Martha Days;
- From noon Thursday, July 3, 2025 to 6:00 AM Monday, July 7, 2025 for Independence Day;
- From noon Friday, August 29, 2025 to 6:00 AM Tuesday, September 2, 2025 for Labor Day;
- From 4:00 PM to 9:00 PM, first Monday of the month, June through September, for Osseo Summer Concert Series.

stp-107-005 (20210113)

## 6. Utilities.

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

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

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

Some of the utility work described below is dependent on prior work being performed by the contractor at a specific site. In such situations, provide the engineer and the affected utility a good faith notice of when the utility is to start work at the site. Provide this notice 14 to 16 calendar days in advance of when the prior work will be completed and the site will be available to the utility owner. Follow-up with a confirmation notice to the engineer and the utility owner three to five working days before the site will be ready for the utility owner to begin its work.

### **Project 1535-07-73 & 1535-07-74**

**Brightspeed of Central Wisconsin, LLC – Communication Line** has buried facilities within the construction along USH 10. Work will take place during construction and will take approximately 15 working days to complete. Relocations and adjustments of Brightspeed communication facilities will be constructed as follows:

- Station 25+65 – 30+85 – Remove aerial 100 pair.
- Station 22+22 – Transfer existing aerial to new power pole.
- Station 25+57 – Place new 35-5 pole 55' north of centerline between sidewalk and back of curb. Pole to pole guy wires 18' and 20' clearance.
- Station 25+67 – Remove 3 guys and 1 anchor from Xcel pole.
- Station 25+85 – Place pedestal between sidewalk and curb next to proposed pole.
- Station 25+90 – Place 30-7 pole, anchor and guy lines, riser.
- Station 25+85 to Station 28+25 – Bore 100 pr 2' front of ROW at 3' below existing grade.
- Station 28+25 – Adjust pedestal to front of proposed sidewalk.
- Station 28+25 – During Construction – Adjust 25/600 pair and 48 fiber. Swing 3' to avoid storm inlet.
- Station 38+66 – During Construction – Expose 600 pair and 84 fiber and lower 1' to avoid storm sewer.
- Station 38+70 – Adjust pedestal west 1' to avoid sidewalk widening.
- Station 38+83 – During Construction – Expose 200 pair and raise 6" to avoid storm sewer crossing.

**City of Osseo – Sewer** has buried sewer facilities within the construction limits along USH 10. Reconstruct sanitary sewer as shown in the plans and in the bid items for this project.

**City of Osseo – Water** has buried water facilities within the construction limits along USH 10. Reconstruct water as shown in the plans and in the bid items for this project.

**Tri-County Communications Cooperative – Communication Line** has facilities within the construction limits along USH 10.

- Pedestals at Station 12+62 LT, 23+03 LT, and 30+16 LT will be relocated between the sidewalk and curb prior to construction and will require 5 working days. Tri-County Communications Cooperative has buried cables that cross the storm sewer at stations 12+50 LT, 20+50 LT, 22+40 LT, 23+03 LT/RT, and 30+20 RT. Allow for 21 working days' notice to locate and expose cables so the contractor can work around the crossings.
- Tri-County Communications has determined there is a conflict with an overhead crossing at Station 17+35. Tri-County Communications will work to have this line rerouted during construction and will service customers served by this line from another direction. This work should be done in coordination with the contractor. This line serves a few homes and can be temporarily rerouted during construction. This work will take approximately 1 working day.

**We Energies – Gas** has facilities within the construction limits along USH 10. Work will take place prior to the start of construction and will take approximately 90 working days. Relocations and/or adjustments of We Energies gas facilities will be constructed as follows:

New Gas Main:

- Station 10+14, 31' LT to Station 11+80, 31' LT
- Station 127+00, 31' RT to Station 25+66, 40' RT
- Station 25+66, 40' RT to Station 30+23, 40' RT (Easement)
- Station 30+23, 40' RT to Station 30+86, 40' RT
- Crossing at Station 10+14
- Crossing at Station 17+90
- Station 16+46, 32' LT to Station 17+90, 32' LT
- Station 30+86, 31' LT to Station 52+48, 72' LT
- Crossing at Station 52+48

New Gas Service:

- Station 18+68
- Station 27+34
- Station 29+30
- Station 36+33
- Station 37+09
- Station 37+38
- Station 39+25
- Station 40+04
- Station 41+00
- Station 43+42
- Station 45+00

Discontinued Gas Main:

- Crossing at Station 12+33
- Station 127+00, 27' RT to Station 18+60, 32' RT
- Station 25+75, 27' LT to Station 30+60, 33' LT
- Station 32+96, 31' LT to Station 48+50, 33' LT
- Crossing at Station 39+32
- Station 39+32, 27' RT to Station 41+00, 27' RT

Discontinued Gas Service – Crossing USH 10

- Station 16+70
- Station 16+78
- Station 17+70
- Station 18+55
- Station 26+65
- Station 36+20
- Station 36+95
- Station 37+06
- Station 37+37
- Station 39+32
- Station 43+50
- Station 44+90

**Xcel Energy – Electricity** has overhead facilities within the construction limits along USH 10. Expected start date of Spring 2025 and work will take approximately 30 working days. Relocations for Xcel Energy overhead facilities are as follows:

- Station 22+25 – replace utility pole 1' south and 3' – 4' west of existing, transfer or new overhead lines
- Station 25+65, 26+60, and 28+25 – remove poles and replace with new light poles on south side of USH 10 at Station 25+05 and 28+20
- Station 30+15 – remove utility pole, replace new pole at Station 30+75, transfer or new overhead lines
- Station 33+45 – replace utility pole 7' – 8' south of existing, transfer or new overhead lines
- Station 38+10 – replace utility pole 1' south of existing, transfer or new overhead lines
- Station 38+75 – replace utility pole, two new poles needed 10' south and 5' – 6' east, transfer or new overhead lines

- Station 40+75 – replace utility pole, new pole 1’ south and 2’ – 3’ east, transfer or new overhead lines
- Station 41+75 – replace utility pole, new pole 2’ – 3’ east of existing, transfer or new overhead lines
- Station 43+20 – replace utility pole, new pole 1’ north and 2’ – 3’ east, transfer or new overhead lines
- Station 44+65 – replace utility pole, new pole 2’ – 3’ north and 2’ – 3’ east, transfer or new overhead lines
- Station 38+75 – pole will require new location and will need to coordinate with road contractor after project beings
- Station 12+25 – at intersection of 10<sup>th</sup> Street and West, the overhead lines are in the way of excavation. The primary conductors are approximately 50 feet high above the ground. The secondary conductors are approximately 40 – 45 feet above the ground. Guards will be installed on them to provide visibility. This work will take approximately 1 working day.

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

**CINC – Communication Line**

**7. Other Contracts.**

The department will be constructing WisDOT Project 1530-06-80, Mondovi – Osseo, Hunt Lane to Nelson Road, USH 10 concurrently with this contract. Project 1530-06-80 shall remain open to through traffic with lane closures, using flagging operations.

**8. Underground Utility Record Drawings.**

Keep a current set of plans at the project that are marked to show the location of underground utilities, as encountered during excavation and as installed new with the project. Accurately record the lengths, depths, invert elevations and location of valves, fittings, structures, pipes, service lines, and field changes for water main, sanitary sewer, storm sewer, and electrical work. Dimension utility locations from permanent reference points; record vertical distances. Submit record drawings to City of Osseo, and their engineer upon completion of work.

Record drawing work will be incidental to the items of underground utility work.

**9. Coordination with City of Osseo.**

The contractor shall coordinate all utility tie-ins (sanitary sewer and water main) and opening and closing of water valves with the City of Osseo.

The contractor shall be responsible for contacting and coordinating utility activities. All property owners shall be contacted 72 hours and again 24 hours in advance of an interruption in utility service. Where utility shutdowns may affect businesses or schools, interruptions shall be scheduled closely with the properties and may not be interrupted for a period exceeding two hours unless prior approval is obtained from the City of Osseo and property owners. Only city personnel shall operate live water main valves. Contractor shall give 48-hour notice to the City of Osseo when requesting valve operation.

In the event that conflicts are noted during construction, water main, valve and hydrant locations can be modified slightly. Any modifications from plan locations shall be reviewed and approved by the City of Osseo.

All existing sanitary sewer manhole castings, inlet castings, and existing hydrants removed during this project shall remain the property of the City of Osseo, and shall be transported to a location the City of Osseo designates.

Project Bipartisan Infrastructure Law (BIL) project sign fabrication, delivery, installation, and maintenance shall be considered incidental to sanitary sewer and water main installations. For more information on the BIL project sign on the Wisconsin DNR website:

<https://dnr.wisconsin.gov/aid/BilSignage.html>

**10. Municipality Acceptance of Sanitary Sewer and Water Main Construction.**

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

stp-105-001 (20140630)

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

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

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

<https://widnr.widen.net/s/s5mwp2gd7s/finalsignedwisdotcsgp>

A certificate of permit coverage is available from the regional office by contacting Dave Koepp at (715) 563-8402. Post the permit certificate in a conspicuous place at the construction site.

stp-107-056 (20230629)

**12. Construction Over or Adjacent to Navigable Waters.**

The North Fork of the Buffalo River is classified as a state navigable waterway under standard spec 107.19.

stp-107-060 (20171130)

**13. Environmental Protection, Aquatic Exotic Species Control.**

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

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

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels before being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially infested waters. Guidelines from the Wisconsin Department of Natural Resources for disinfection are available at:

<http://dnr.wi.gov/topic/invasives/disinfection.html>

Use the following inspection and removal procedures:

1. Before leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can before leaving the area or invested waters; and

4. Disinfect your boat, equipment and gear by either:
  - 4.1. Washing with ~212 F water (steam clean), or
  - 4.2. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
  - 4.3. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore, this disinfect should be used in conjunction with a hot water (>104° F) application.

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

stp-107-055 (20130615)

#### **14. Coordination with Businesses and Residents.**

The contractor shall arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week before the start of work under this contract and hold two meetings per month thereafter. 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)

#### **15. Environmental Protection – Dewatering.**

*Add the following to standard spec 107.18:*

If dewatering is required, treat the water to remove suspended sediments by filtration, settlement or other appropriate best management practice prior to discharge. Submit the proposed means and methods of dewatering for each required location for approval as part of the Erosion Control Implementation Plan (ECIP). Include details of how the intake will be managed to not cause an increase in the background level turbidity prior to treatment and any additional measures necessary to prevent sediments from reaching the project limits or wetlands and waterways.

Guidance on Dewatering can be found on the Wisconsin Department of Natural Resources website located in the Storm Water Construction Technical Standards, Dewatering Code #1061. This document can be found at the WisDNR website:

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

Work includes furnishing all materials, excavation, maintenance, cleaning, disposal of surplus material and removal of the dewatering system and is incidental to contract work.

ncr-107-025 (20160401)

#### **16. Wisconsin Department of Natural Resources Safe Drinking Water Loan Program and Wisconsin Department of Administration Community Development Block Grant for Public Facilities Requirements for Construction of Municipal Components.**

Construction of sanitary sewer and water main under this contract shall comply with the requirements of Wisconsin Department of Natural Resources (WisDNR) Safe Drinking Water Loan Program (SDWLP):

<https://dnr.wisconsin.gov/sites/default/files/topic/Aid/loans/pubs/CF0043.pdf>

and Wisconsin Department of Administration (WDOA) Community Development Block Grant for Public Facilities (CDBG- PF):

<https://energyandhousing.wi.gov/Pages/CommunityResources.aspx>

Comply with the following federal requirements as provided in linked publications:

- Davis-Bacon and Related Acts (DBRA)
- Latest wage rates shown in General Decision Numbers: WI20240008 & WI20240010
- Disadvantaged Business Enterprises (DBEs)
- American Iron and Steel
- Build America, Buy America (BABA)
- [Bipartisan Infrastructure Law Signage](#)
- 2024 DNR Contract Language for Non-Federal Equivalency  
<https://dnr.wisconsin.gov/sites/default/files/topic/Aid/loans/pubs/CF0029.pdf>

Proof of compliance shall be provided to City of Osseo personnel and are a requirement of acceptance of the sanitary sewer and water main construction. These appendices must be attached to any subcontract, and all subcontractors are required to comply therewith. All funding required project signs shall be considered incidental to the sanitary sewer and water main bid items.

Compliance with these requirements will apply to all items in project 1535-07-74 and the items listed below:

Item Number	Item Name
204.0155	Removing Concrete Sidewalk
602.0405	Concrete Sidewalk 4-inch
650.9500	Construction Staking Sidewalk (project) 01. 1535-07-73
SPV.0165.01	Concrete Sidewalk Cure and Seal Treatment

**17. Health and Safety Requirements for Workers Remediating Petroleum Contamination.**

*Add the following to standard spec 107.1(2):*

Soil contamination with gasoline, diesel fuel, fuel oil, or other petroleum related products may be encountered during excavation activities. Prepare a site-specific Health and Safety Plan complying with the Occupational Safety and Health Administration (OSHA) standard for Hazardous Waste Operation and Emergency Response (HAZWOPER), 29 CFR 1910.120.

All site workers taking part in remediation activities or who will have the reasonable probability of exposure of safety or health hazards associated with the hazardous material shall have completed Health and Safety training that meets OSHA requirements. Before the start of remediation work, submit to the engineer a site-specific Health and Safety Plan, and written verification that workers will have completed up-to-date OSHA training.

Develop, delineate, and enforce the health and safety exclusions zones for each contaminated site location pursuant to 29 CFR 1910.120.

stp-107-115 (20150630)

**18. Abatement of Asbestos Containing Material B-61-282, Item 203.0211.S.**

**A Description**

This special provision describes abating asbestos containing material on structures.

**B (Vacant)**

## C Construction

Paul Garvey, License Number All-117079, inspected Structure B-61-282 for asbestos on March 15, 2023. Regulated Asbestos Containing Material (RACM) was found on this structure in the following locations and quantities: Gray caulk used as joint filler on both sides of structure at the joints was found to contain 1.2% Category II Non-Friable chrysotile asbestos. There are 2 segments totaling an estimated 12 SF.

The RACM on this structure must be abated by a licensed abatement contractor. A copy of the inspection report is included in the bid package or available from Dave Koepp, 715-563-8402, [david.koepp@dot.wi.gov](mailto:david.koepp@dot.wi.gov). According to NR447 and DHS159, ensure that DNR or DHS receives a completed Notification of Demolition and/or Renovation (DNR Form 4500-113 (R 3/20), or subsequent revision) via U.S. mail, hand-delivery, or using the online notification system at least 10 working days before beginning any construction or demolition. Pay all associated fees. Provide a copy of the completed 4500-113 form and the abatement report to Dave Koepp, 715-563-8402, [david.koepp@dot.wi.gov](mailto:david.koepp@dot.wi.gov) and via email to [dothazmatunit@dot.wi.gov](mailto:dothazmatunit@dot.wi.gov) or via US mail to DOT BTS-ESS attn: Hazardous Materials Specialist, 5 South S.513.12, PO Box 7965, Madison, WI 53707-7965. In addition, comply with all local or municipal asbestos requirements.

Use the following information to complete WisDNR form 4500-113:

- Site Name: Structure B-61-282, USH 010 over Buffalo River
- Site Address: 0.9M E JCT CTH K, 1024N07W
- Ownership Information: WisDOT Transportation NW Region 718 W. Clairemont Ave. Eau Claire, WI 54701
- Contact: Dave Koepp
- Phone: (715) 563-8402
- Age: 88 years. This structure was constructed in 1937.
- Area: 3428 SF of deck

Insert the following paragraph in Section 6.g.:

- If asbestos not previously identified is found or previously non-friable asbestos becomes crumbled, pulverized, or reduced to a powder, stop work immediately, notify the engineer, and the engineer will notify the department's Bureau of Technical Services at (608) 266-1476 for an emergency response as specified in standard spec 107.24. Keep material wet until it is abated or until it is determined to be non-asbestos containing material.

## D Measurement

The department will measure Abatement of Asbestos Containing Material (Structure #) by each structure, 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
203.0211.S	Abatement of Asbestos Containing Material B-61-282	EACH

Payment is full compensation for submitting necessary forms; removing all asbestos; and for properly disposing of all waste materials.

stp-203-005 (20220628)

## 19. Public Convenience and Safety.

*Revise standard spec 107.8(6) as follows:*

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 9:00 PM until the following 7:00 AM, unless prior written approval is obtained from the engineer.

stp-107-001 (20060512)



**20. Removing Landscaping Retaining Wall, Item 204.9090.S.01.**

**A Description**

This special provision describes removing Landscaping Retaining Wall conforming to standard spec 204.

**B (Vacant)**

**C (Vacant)**

**D Measurement**

The department will measure Removing Landscaping Retaining Wall in linear feet, acceptably completed.

**E Payment**

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9090.S.01	Removing Landscaping Retaining Wall	LF

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

**A Description**

**A.1 General**

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a DNR approved bioremediation facility or landfill. The closest DNR approved bioremediation facility or landfill is Seven Mile Creek Landfill, LLC, located at 8001 Olson Drive, Eau Claire, WI 54703.

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

**A.2 Notice to the Contractor – Contaminated Soil Locations**

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

1. Station 19+00 to 20+50 from 25 feet LT of centerline and up to 100 feet RT of centerline on Harmony Street. Soil was identified with petroleum and polynuclear aromatic hydrocarbon (PAH) impacts from at least 2.5 feet below ground surface to 6 feet below ground surface. Approximately 500 cubic yards of contaminated soil may be encountered. Shallow groundwater was encountered between 13.88 to 15 feet below ground surface (bgs) and was identified with PAH impacts exceeding the WI NR140 Preventative Action Limits (PALs) and/or Enforcement Standards (ES).
2. Station 12+75 to 13+00 from 25 feet RT of centerline to the centerline. Shallow groundwater was encountered at a depth of 11.5 feet bgs. PAH contamination in groundwater was identified exceeding the WI NR140 ES and PAL.
3. Station 26+00 to 27+00 from 25 feet RT of centerline to the centerline. Shallow groundwater was encountered at a depth of 12-13 feet bgs. Petroleum contamination was identified in groundwater, as well as PAH contamination exceeding the WI NR140 ES and PAL.
4. Station 53+00 to 55+00 from 25 feet LT of centerline to the centerline. Petroleum contamination was identified in soil from 2.5 to 12.5 feet bgs. Arsenic was also identified at 10-12.5 feet bgs exceeding the WI Residual Contaminant Level (RCL) and background threshold value. Approximately 370 cubic yards of contaminated soil may be encountered. Shallow groundwater was encountered between 9-12 feet below ground surface, and was identified with petroleum volatile organic compounds (pVOCs) and arsenic exceeding their respective NR 140 ESs and/or PALs.

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

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

Name: Dave Koepp, WisDOT Project Supervisor  
Address: Wisconsin Department of Transportation – Northwest Region, Eau Claire Office  
718 W. Clairemont Ave, Eau Claire, WI 54701  
Phone: (715) 563-8402  
Fax: (715) 836-2807  
E-mail: [david.koepp@dot.wi.gov](mailto:david.koepp@dot.wi.gov)

### **A.3 Coordination**

Coordinate work under this contract with the environment consultant:

Consultant: Bay West LLC  
Address: 5 Empire Drive, St. Paul, MN 55103  
Contact: Paul Raymaker  
Phone: (651) 291-3411  
E-mail: [praymaker@baywest.com](mailto:praymaker@baywest.com)

The role of the environmental consultant will be limited to:

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

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

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

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

### **A.4 Health and Safety Requirements**

*Add the following to standard spec 107.1:*

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

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

### **B (Vacant)**

### **C Construction**

*Add the following to standard spec 205.3:*

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

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

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

On the basis of the results of such field-screening, the material will be designated as follows:

- Excavation Common – Consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or
- Low-Level Contaminated Material – PID readings less than 10 ppm and no observation of staining or petroleum odor for reuse as fill within the construction limits if covered with pavement, or
- Contaminated Soil – Significant petroleum odor, staining, and/or PID readings greater than 10 ppm) for off-site treatment and disposal at the WDNR-licensed bioremediation facility, or
- Contaminated Industrial Fill – Soil for reuse as fill within the construction limits if covered by pavement or 6-inches of clean topsoil, or off-site treatment and disposal at the WDNR-licensed bioremediation facility, or
- Potentially contaminated material for temporary stockpiling and additional characterization prior to disposal.

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

Some material may require additional characterization prior to disposal. Provide for the temporary stockpiling of up to 870 cubic yards of contaminated soil on-site that require additional characterization. Construct and maintain a temporary stockpile of the material according to NR 718.05(3), including, but not limited to, placement of the contaminated soil/fill material on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. The environmental consultant will collect representative samples of the stockpiled material, laboratory-analyze the samples, and advise the contractor, within 12 business days of the construction of the stockpile, of disposal requirements. The stockpiled material shall be disposed either at the WDNR-licensed disposal facility by the contractor or, if characterized as hazardous waste, by the department. As an alternative to temporarily stockpiling contaminated soil/fill material that requires additional characterization, the contractor has the option to suspend excavation in those areas, as stated above.

When material is encountered outside the above-identified limits of known contamination that appears to have been impacted with petroleum or chemical products, or when other obvious potentially contaminated materials are encountered or material exhibits characteristics of industrial-type wastes, such as fly ash, foundry sand, and cinders, or when underground storage tanks are encountered, suspend excavation in that area and notify the engineer.

#### Groundwater

Groundwater may be present within the construction limits. Water generated during dewatering operations (if necessary) is expected to be permitted to discharge to the surface except in the contaminated areas. Contaminated water encountered, but not requiring removal as a standard course of construction, shall remain in-place and not be managed under this special provision.

Contaminated groundwater generated from dewatering activities within the contaminated areas exceeds the surface water discharge limits for PVOCs specified in the DNR's "General Permit to Discharge under the Wisconsin Pollutant Discharge Elimination System" for "Contaminated Groundwater from Remedial Action Operations" (WPDES Permit No. WI-0046566-5), Table 3.1.

Contaminated water generated during dewatering requires containerization and on-site treatment prior to discharge. Discharge requirements include the following:

- Following treatment, treated water must meet requirements for surface water discharge. The Contractor must obtain required permits for surface water discharge. Do not discharge to the sanitary sewer without approval from the City of Osseo Department of Public Works. The City of Osseo is not currently accepting discharge to the wastewater treatment plant due to capacity concerns. Notify Steven Durham, Director of Public Works at (osseopublicworks@triwest.net or (715) 533 0304) if any water is discharged to the sanitary sewer.
- On-site treatment of contaminated water is required to meet surface water discharge permit requirements, and, if utilized, would include treatment through bag filters, organo-clay (if necessary for petroleum free product separation) and granular activated carbon (GAC). The actual dewatering and treatment equipment shall be determined by the contractor.
- Document compliance with the surface water discharge permit requirements prior to discharging, including laboratory analysis of post-treatment water for any parameters required by the permit. Laboratory analysis shall be completed at the cost of the contractor.
- Discharging contaminated groundwater to any location other than that approved and provided by the environmental consultant, is at the contractor's cost. If the contractor chooses alternate discharge, at the contractor's cost, obtain DNR concurrence on any dewatering plans, and provide and operate any and all treatment and discharge equipment required.
- If on-site treatment is not feasible, all water may be trucked to an alternative wastewater treatment plant or disposal facility, if water meets the wastewater treatment plant or disposal facility requirements and at the contractor's option and at the contractor's cost. Transportation of wastewater shall comply with all federal, state, and local rules and regulations, including standards applicable to transporters of hazardous waste.

Notify the environmental consultant prior to pumping contaminated groundwater.

Employ construction methods and techniques in a manner that will minimize the need for dewatering, and if dewatering is required, minimize the volume of water generated. Take measures to limit groundwater, surface water, and precipitation from entering and exiting excavations in the areas of contamination. Such measures, which may include berming, ditching, or other means, shall be maintained until construction of utilities in the areas of contamination are complete.

Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities. Notify the engineer of any dewatering activities and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

#### **D Measurement**

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

#### **E Payment**

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

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

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

stp-205-003 (20230113)

## **22. Removing Bearings, B-61-282, Item 506.7050.S.**

### **A Description**

This special provision describes raising the girders and removing the existing bearings, as the plans show.

### **B (Vacant)**

**C Construction**

Raise the structure’s girders and remove the existing bearings as the plans show.

Obtain prior approval from the engineer for the method of jacking the girders and of supporting them as required.

**D Measurement**

The department will measure Removing Bearings B-61-282 by the unit for each bearing removed, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
506.7050.S	Removing Bearings, B-61-282	EACH

Payment is full compensation for raising the bridge girders; and for removing the old bearings.

Cost of furnishing and installing the bearings will be paid for under separate bid items.

stp-506-035 (20130615)

**23. Removing and Resetting Tubular Railing B-61-282, Item 513.9006.S.**

**A Description**

This special provision describes removing tubular railing and posts from existing bridge parapets, storing them, and then resetting them when the new parapet is complete.

**B (Vacant)**

**C Construction**

Remove the tubular railing and posts, taking care not to damage them. Store the tubular railing and posts in an area away from construction activities to preclude damage to them.

In the event that damage does occur to any item that is designated for re-use in the new work, repair or replace the damaged item at no expense to the department.

**D Measurement**

The department will measure Removing and Resetting Tubular Railing (Structure #) as a single unit for each structure, 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
513.9006.S	Removing and Resetting Tubular Railing B-61-282	EACH

Payment is full compensation for removing the tubular railing and posts; properly storing the tubular railing and posts; and for resetting the tubular railing and posts.

stp-513-090 (20210708)

**24. Structure Repainting General.**

**A General**

**A.1 Inspection**

On all structures in this contract, notify the engineer of any missing or broken bolts or nuts, any missing or broken rivets, or of any cracks or flaws in the steel members while cleaning or painting.

**A.2 Date Painted**

At the completion of all painting work, stencil in black paint or contrasting color paint the date of painting the bridge. The numbers shall be 3 inches (75 mm) in height and shall show the month and year in which the painting was completed: e.g., 11-95 (November 1995). On each bridge painted, stencil the date at two

locations. On truss bridges, stencil the date on the cover plates of end posts near and above the top of the railings at the oncoming traffic end. On steel girder bridges, stencil the date on the inside of the outside stringers at the abutments. The date on grade separation bridges shall be readable when going under the structure or at some equally visible surface near the ends of the bridge, as designated by the engineer.

### **A.3 Graffiti Removal**

Remove any graffiti on concrete abutments, piers, pier caps, parapet railings, slope paving or any other location at the direction of the engineer. Use a brush sandblast to remove graffiti.

The above work will not be measured and paid for separately but will be considered incidental to other items in the contract.

## **B (Vacant)**

### **C Construction**

#### **C.1 Repainting Methods**

Do not perform blasting, cleaning and painting on days of high winds. Prevailing winds in excess of 15 mph (25 km/hr) shall be considered high winds.

Place the final field coat of paint on the exterior of the exterior beams as a continuous painting operation. Stop at splices, vertical stiffeners or other appropriate locations so that lap marks are not evident or noticeable.

Completely clean and remove spent abrasive and other waste materials resulting from the contractor's operation from bridge deck surfaces, gutter lines, drains, curbs, bridge seats, pier caps, slope paving, roadway below, and all structural members and assemblies.

#### **C.2 Inspection**

*Add the following to standard spec 105.9:*

Furnish, erect and move scaffolding and other equipment to allow the inspector to closely observe all affected surfaces. The scaffolding, with appropriate safety devices, shall meet the approval of the engineer.

stp-517-005 (20150630)

## **25. Structure Overcoating Cleaning and Priming B-61-282, Item 517.3001.S.**

### **A Description**

This special provision describes cleaning and painting with two or three coats of paint the metal surfaces.

#### **A.1 Areas to be Cleaned and Painted**

Structure B-61-282

1. Two Coat Area: 0 SF with SP 1 cleaning.
2. Three Coat Area:
  - 0 SF with SP 2 cleaning.
  - 1,060 SF with SP 3 cleaning.
  - 0 SF with SP 11 cleaning.
  - 0 SF with SP 15 cleaning.
  - 1,060 SF total three-coat area.

### **B Materials**

**Furnish an epoxy coating system from the department's APL for Paint- structure maintenance.**

### **C Construction**

#### **C.1 Surface Preparation**

Before overcoating or power tool cleaning, solvent clean all surfaces to be coated according to SSPC-SP1. A SSPC-SP 3 power Tool Cleaning according to Steel Structures Painting Council Specification 3 will be required on all metal surfaces to be painted with a three-coat system. Prime the same day, or re-clean before application, all metal surfaces receiving a No. 3 cleaning.

Remove all abrasive or paint residue from steel surfaces with a High Efficiency Particulate Abatement (HEPA-VAC) vacuum cleaner equipped with a brush-type cleaning tool, or by double blowing. If the double blowing method is used, vacuum the exposed top surfaces of all structural steel, including flanges, longitudinal stiffeners, splices, plates, and hangers, after the double blowing operations are completed. The air line used for blowing the steel clean shall have an inline water trap and the air shall be free of oil and water as it leaves the air line.

Take care to protect freshly coated surfaces from subsequent cleaning operations. Thoroughly wire brush damaged primed surfaces with a non-rusting tool. Clean and re-prime the brushed surfaces within the time recommended by the manufacturer.

### **C.2 Painting**

Paint by applying two or three coats of an approved coating system as specified herein to the surfaces as described in A.1 from the department's approved products list.

### **C.3 Coating Application**

Apply paint in a neat, workmanlike manner. The resultant paint film shall be smooth and uniform without skips or areas of excessive paint. Apply coating according to the manufacturer's recommendations.

Before applying the prime coat, coat with primer all edges, rivet and bolt heads, nuts and washers by using either a brush, roller, or spray application.

Dry Film Thickness per coat shall be a minimum of 3-mil. The dry film thickness shall be determined by use of a magnetic film thickness gage. The gage shall be calibrated for dry film thickness measurement according to SSPC-PA 2.

During surface preparation and coating application, the ambient and steel temperature shall be between 39 and 100 degrees F. The steel temperature shall be at least 5 degrees F above the dew point temperature, and the relative humidity shall not exceed 85%.

### **D Measurement**

The department will measure Structure Overcoating Cleaning and Priming (Structure #) as a single unit for each structure, 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
517.3001.S	Structure Overcoating Cleaning and Priming B-61-282	EACH

Payment is full compensation for preparing and cleaning the designated surfaces; and for furnishing and applying the paint.

stp-517-036 (20210708)

## **26. Containment and Collection of Waste Materials B-61-282, Item 517.4001.S.**

### **A Description**

This special provision describes furnishing and erecting tarpaulins to contain, collect and store the spent material from surface preparation of steel surfaces, collecting such spent material, and labeling and storing the spent material in waste containers.

### **B Materials**

Provide 5-gallon lidded plastic containers for containing the spent material.

### **C Construction**

Erect tarpaulins or other materials to collect all of the spent material from power tool cleaning. Consider and treat all spent material as hazardous waste.

Collect and store all waste material collected by this operation at the bridge site for disposal. Collect and store all waste materials at the end of each workday or more often if needed. Store materials in 5-gallon lidded plastic containers.

Label each container with the date the first waste was placed in the container and the words "Hazardous Waste – EPA Waste Code D008." Lock and secure all containers at the end of each workday. Keep the

containers covered at all times except to add or remove waste material. Store the containers in an accessible and secured area, not located in a storm water runoff course, flood plain or exposed to standing water.

Collect the spent debris by vacuuming, shoveling, sweeping, or by channeling it directly to disposal containers. The enclosure shall be thoroughly cleaned at the end of each work day.

#### **D Measurement**

The department will measure Containment and Collection of Waste Materials (Structure) as a single unit for each structure, 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
517.4001.S	Containment and Collection of Waste Materials B-61-282	EACH

Payment is full compensation for designing, erecting, operating, maintaining and disassembling the containment devices, collecting, labeling and storing spent materials in appropriate containers.

stp-517-037 (20230113)

### **27. Labeling and Disposal of Waste Material.**

The EPA ID number for Structure B-61-282 is WIR000123562.

The state has an exclusive mandatory use contract with a private waste management contractor to transport and dispose of hazardous waste.

The state's waste management contractor shall furnish and deliver appropriate hazardous waste containers and site-specific labels to each bridge site. The provided containers shall be placed at pre-selected drop-off and pick-up points at each bridge site, and these locations shall be determined at the preconstruction conference. The custody of the containers and labels shall be the responsibility of the painting contractor while they are at the job site.

Fill out form DT 1231, <https://wisconsin.gov/Documents/formdocs/dt1231.docx> and email it to the waste management contractor, the region environmental coordinator, and the DOT Hazmat unit mailbox ([dothazmatunit@dot.wi.gov](mailto:dothazmatunit@dot.wi.gov)) a minimum of 10 working days in advance to request container drop-off or pickup. Using the form, provide the waste management contractor with the project ID, structure number, EPA ID, and the agreed-upon location for container staging. Contact information for the waste management contractor is located on the WisDOT Internet site at:

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

Report all reportable spills and discharges according to the contingency plan.

Labels are site-specific. Check the labels to ensure that the project ID, structure number, and EPA ID match the structure generating the waste. Apply a label to each drum when it is opened for the first time. Fill in the date on the label the first day material is accumulated in the drum. The following page is an example of a properly filled-in label.

During paint removal operations, continuously monitor and notify the project inspector of the status of waste generation and quantity stored so that timely disposal can be arranged.

stp-517-055 (20230113)



HAZARDOUS WASTE

WW-5257580999-001-01-0

# STORAGE LABEL

RQ, HAZARDOUS WASTE, SOLID, n.o.s.,  
(LEAD), 9, NA3077, III, (D008)

Enter the date that waste materials were first placed into the container

EPA CODE: E/D008 STATE: S

WIP#: 391498

WIP DESC: BRIDGE SAND WITH LEAD

DATE ACCUMULATED: 07/01/2005

HAZARDOUS WASTE – FEDERAL LAW PROHIBITS IMPROPER DISPOSAL IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

WISC DOT BRIDGE # B-29-53/54  
I-94 OVER CTH H  
PROJECT ID # 5882-03-70  
CAMP DOUGLAS, WI 54618

(608) 963-0871

GENERATOR EPA ID  
WIR000121103

Project ID Number on label must match the Project Number assigned by the WIDOT

Bridge Number and Address on label must match specific bridge from which waste was generated.

EPA ID Number on label is specific to the bridge from which the waste is generated.

## 28. Portable Decontamination Facility, Item 517.6001.S.

### A Description

This special provision describes furnishing and maintaining weekly, or more often if needed, a single unit portable decontamination facility.

### B Materials

Supply and operate all equipment according to OSHA.

Supply adequate heating equipment with the necessary fuel to maintain a minimum temperature of 68° F in the facility.

The portable decontamination facility shall consist of a separate "Dirty Room", "Shower Room" and "Clean Room". The facility shall be constructed so as to permit use by either sex. The facility shall have adequate ventilation.

The "Dirty Room" shall have appropriately marked containers for disposable garments, clothing that requires laundering, worker shoes, and any other related equipment. Each container shall be lined with poly bags for transporting clothing, or for disposal. Benches shall be provided for personnel.

The "Shower Room" shall include self-contained individual showering stalls that are stable and well secured to the facility. Provide showers with a continuous supply of potable hot and cold water. The wastewater must be retained for filtration, treatment, and/or for proper disposal.

The "Clean Room" shall be equipped with secure storage facilities for street clothes and separate storage facilities for protective clothing. The lockers shall be sized to store clothing, valuables and other personal belongings for each worker. Benches shall be provided for personnel.

Supply a separate hand wash facility, either attached to the decontamination facility or outside the containment.

**C Construction**

Properly contain, store, and dispose of the wastewater.

**D Measurement**

The department will measure Portable Decontamination Facility 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
517.6001.S	Portable Decontamination Facility	EACH

Payment is full compensation for furnishing and maintaining a portable decontamination facility.

stp-517-060 (20230113)

**29. 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)

**30. Insulation Board Polystyrene, 2-Inch, Item 612.0902.S.**

**A Description**

This special provision describes furnishing and placing polystyrene insulation board as the plans show.

**B Materials**

Provide polystyrene insulation board that conforms to the requirements for Extruded Insulation Board, AASHTO Designation M230 as modified in this special provision.

Delete flammability requirement.

**B.1 Certification**

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

**C (Vacant)**

**D Measurement**

The department will measure Insulation Board Polystyrene, 2-Inch by area in square yards of work, completed and accepted.

**E Payment**

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

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

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

stp-612-005 (20030820)

**31. Installing and Maintaining Bird Deterrent System Station 14+23, Item 999.2000.S;**

**A Description**

This special provision describes inspecting, installing and maintaining approved deterrents that prevent migratory bird nesting on bridges and culverts. Swallows or other migratory birds' nests have been observed on or under the existing culvert or bridge at the station identified. All active nests (when eggs or young are present) of migratory birds are protected under the federal Migratory Bird Treaty Act. One deterrent system shall be installed and/or maintained for each applicable structure. Deterrent methods selected shall be appropriate for structure type, size and/or site-specific constraints.

**B Materials**

**B.1 Hardware and Lumber**

Lumber, hardware, and fastening devices shall be durable enough to last through the length of the nesting season. Fastening devices and deterrence system must be approved by the engineer prior to installation on culverts and bridges that will remain in service after removal of deterrent systems. The method of fastening should not compromise the culvert or bridge concrete surfaces or steel protection systems. The attachment locations must be restored and repaired as needed by use of engineer approved fillers, sealers and paint systems.

**B.2 Netting Materials**

Exclusion netting is material either wrapped around or draped and fastened to bridge decks/abutments and culvert corners to prevent bird entry.

Furnish exclusionary netting to deter nesting in bridge decks and abutments and corners of box culverts, consisting of either:

- a. 1/2" x 1/2" or 3/4" x 3/4" knotless, flame resistant, U.V. stabilized polyethylene or polypropylene netting with minimum 40-pound breaking strength per strand, or engineer approved equal.
- b. Galvanized wire mesh (hardware cloth) with a wire diameter of .040 inches (19-gauge) and opening width of 1/2-inch.

At a minimum, use either 1" x 2" (nominal) lumber or 3/4" x 2" pressure treated plywood strips and of equal length as the netting.

### **B.3 Plastic Strip Curtain**

Plastic strip curtains are strips of plastic attached to vertical surfaces in areas suitable for nesting.

Furnish 3-foot wide lengths of 6 mil minimum plastic sheeting with the lower 2 feet cut into vertical strips 2 inches wide.

At a minimum, use either 1" x 2" (nominal) lumber or 3/4" x 2" pressure treated plywood strips and staples to attach plastic strips to wood to fabricate the strip curtain.

Furnish concrete screws to attach strip curtain to structure.

### **B.4 Corner Slope Materials**

Corner slopes are pieces of curved plastic placed in corners suitable for nesting. They are particularly effective in preventing nesting in top corners of box culverts.

Furnish U.V. stabilized pre-fabricated PVC or polycarbonate corner slopes from commercial bird-deterrent manufacturers or an approved equal.

## **C Construction**

### **C.1 General**

If active nests are observed after construction starts, or if a trapped bird or an active nest is found, stop work that may affect birds or their nests, and notify the engineer to consult with the Wisconsin Department of Natural Resources transportation liaison at Amy Lesik, at 715-495-1903, or the department regional environmental coordinator Emily Melton, at 715-836-2893.

Efforts should be made to release trapped birds, unharmed.

### **C.2 Nest Removal**

Remove unoccupied nests prior to the beginning of the nesting season as designated in Prosecution and Progress. Nest removal involves the removal and disposal of unoccupied or partially constructed nests without eggs or nestlings. Removing all evidence of nesting (e.g. cleaning droppings from structures) eliminates a visual cue for a potential breeding location, especially for first-time breeders. Nest removal is not a type of deterrent and does not prevent nest establishment but can delay the process. As such, it should only be used in conjunction with other methods. It cannot be used on its own to ensure compliance. Nest removal is not required if deterrents are installed before the start of the avoidance window unless nests interfere with successful installation of the deterrent.

Remove nests on the structure by scraping or pressure washing prior to established avoidance windows to deter nesting. Remove only unoccupied or partially constructed nests without eggs or nestlings. Remove newly built nests every two days before eggs are laid. Nest removal is intended to be used prior to and in conjunction with other nesting deterrents.

### **C.3 Exclusion Netting**

#### **C.3.1 Installation**

Using concrete screws, anchor lumber to bridge or culvert along perimeter of intended netting. Fasten netting to lumber until netting is held taut. Use the minimum length of lumber and netting necessary to avoid sections of netting that are not flush to the bridge or culvert. Eliminate any loose pockets or wrinkles that could trap and entangle birds or other wildlife. Ensure the net is pulled taut in order to prevent flapping in the wind, which results in tangles or breakage at mounting points.

For culverts, attach netting at a 45-degree angle at the culvert corner so it extends at least 12" below the corner.

### **C.4 Plastic Curtains**

#### **C.4.1 Installation**

Attach plastic curtains along the entire length of vertical surface or corner on which nest building is to be deterred. Affix plastic curtain strips to treated lumber with staples spaced a minimum of 1 foot O.C. Wrap plastic curtains around lumber prior to attaching it to the structure to reduce the likelihood of it tearing out at the staples. Screw lumber into the underside of the bridge deck or top of box culvert with concrete screws placed 24-inches O.C. minimum.

## **C.5 Corner Slopes**

### **C.5.1 Installation**

Attach corner slopes to the structure per the manufacturer's recommendations. Use urethane-based adhesives if manufacturer supplied hardware or adhesives are not available or no recommendations are provided. Install end caps or seal ends of corner slopes to prevent entry of birds or other animals.

### **C.6 Inspection and Maintenance**

Inspect bird deterrent devices every two weeks both during and prior to construction when deterrents have been installed to exclude birds prior to nesting windows, and after large storm events or high winds. Ensure that netting is taut, that no gaps or holes have formed, and that the nets are functioning properly. Ensure that corner slopes are not cracked or otherwise damaged and are functioning properly. Ensure that curtains are undamaged, with no tears, holes, or creases. Repair any damaged or loose deterrent devices. Inspect, maintain, and repair nesting deterrents whether installed by the contractor or others. Repair, replace, supplement deterrents as necessary with materials meeting the requirements of this specification.

Remove any unoccupied or partially constructed nests without eggs or nestlings.

Repair deterrents to prevent birds from attempting to nest again.

Record all inspection, removal, and maintenance activities. Provide inspection, removal and maintenance records to the engineer upon request.

### **C.7 Removal and Structure Repair**

Maintain the deterrent until the engineer determines that the deterrent is deemed no longer necessary. Upon completion of the project, remove any remaining migratory bird deterrent from the project site. If the existing bridge or culvert is to remain after construction, restore and repair as needed by use of engineer approved fillers, sealers and paint systems.

## **D Measurement**

The department will measure Installing and Maintaining Bird Deterrent System (Station) as a single unit at each structure, 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
999.2000.S	Installing and Maintaining Bird Deterrent System Station 14+93	EACH

Payment for Installing and Maintaining Bird Deterrent System is full compensation for providing and installing deterrents that prevent migratory bird nesting; removing and disposing of unoccupied or partially constructed nests without eggs or nestlings; maintaining, repairing, replacing, supplementing, existing deterrent materials; repairing damage to structures resulting from installation of deterrents; removal and disposal of materials.

## **32. Sanitary Sewer Manhole w/Casting 4-FT Diameter, SPV.0060.01.**

### **A Description**

This special provision describes furnishing and installing new sanitary sewer manholes, castings and connecting to sanitary sewer pipe, all as shown on the plans according to standard spec 611 and as provided by these specifications.

### **B Materials**

Precast concrete riser sections and appurtenant units (top and base slab, special sections, etc.) used in the construction of manholes will conform to the requirements of ASTM C 478, subject to the following provisions.

Joints of riser sections are to be tongue and groove with gasketed joints. Top cone shall be eccentric. Inlet and outlet pipes will be joined to the structure with flexible, watertight rubber boot arrangement that allows differential settlement of the pipe and manhole to take place. Connecting pipes to structures with grouting only is not acceptable.

Base sections of all structures will consist of monolithic base and bottom section of barrel. No joints will be allowed between base and bottom of barrel.

Provide 12 inches wide steps, which shall be cast aluminum or polypropylene coated steel.

Sewer castings for sewer structures such as manhole frames and covers will conform to the requirements of ASTM A48 (gray iron castings). Lid-to-frame surfaces on round casting assemblies will be machine milled to provide true bearing around the entire circumference.

Manhole castings shall be Neenah R-1642 with non-rocking lids and 2 concealed pick holes, or approved equal.

Provide and install external flexible rubber frame seal and where necessary, an interlocking extension or extensions, sealing the entire chimney of sanitary manholes. The seal and extension or extensions shall extend from the lower base flange of the frame down to the top of the manhole cone.

Chimney and frame seal rubber sleeve and extension. Flexible rubber sleeve and extensions shall be extruded or molded from a high grade rubber compound conforming to the applicable material requirements of ASTM C923, with a minimum 1500 psi tensile strength, maximum 18% compression set and a hardness (durometer) of 48+/- 5. The rubber sleeve shall be corrugated, with a minimum thickness of 3/16 inches with an unexpanded vertical height of 9 inches. The top section of the sleeve shall contain multiple sealing fins and be designed to extend both over and under the manhole frame's base flange allowing it to be mechanically locked to the frame. The bottom section of the sleeve shall contain an integrally formed compression band recess and a series of sealing fins to facilitate a watertight seal. The extension shall have a minimum thickness of 3/16 inches. The top portion of the extension shall be shaped to fit into the bottom band recess of the sleeve and have its own integrally formed band recess located such that when assembled this recess is centered over that of the sleeve. The bottom section of the extension shall contain an integrally formed compression band recess and multiple sealing fins matching that of the rubber sleeve.

Chimney and frame seal bands. Provide minimum 1-inch wide compression band to compress the sleeve against the manhole integrally formed from 16 gauge stainless steel conforming to the applicable material requirements of ASTM C923, Type 304, with no welded attachments. The top compression band shall have a shape and width sufficient to, when tightened, will mechanically lock the sleeve to the manhole frame's base flange. The lower compression band shall be a flat strip to allow placement into the lower band recess of the seal and/or extension. The tightening mechanism on both bands shall have capacity to develop the pressures necessary to make a watertight seal and shall have a minimum adjustment range of 2 diameter inches. Screws, bolts, and nuts used on the bands shall be stainless steel conforming to ASTM F593 and F594, Type 304.

### **C Construction**

Construct sanitary manholes according to plan details and elevations.

Provide trench excavation, foundations, and backfill according to the requirements as described under the item for sanitary sewer. Place precast manhole base on compacted granular subgrade.

All trench excavation and backfilling, backfill material, compaction, and minor dewatering shall be considered incidental.

Connect to sanitary sewer pipes. Any required coupling adaptors required will be included.

Locate steps within 1 inch of vertical alignment and within 1 inch of required vertical spacing. Maximum allowable deviation from staked and plan location is within 0.30 feet horizontal and 0.03 feet vertical.

Provide adjusting rings according to plan details to establish required casting elevations. Set lowest adjusting ring on a full mortar bed for leveling after dry stacking rings to check proper grade. Adjust new sanitary sewer manhole castings to final grade between paving lifts according to manhole adjustment item.

Fully encase the outside drop pipe in concrete as shown on construction details.

Install chimney and frame seal according to the manufacturer's recommendations. Inspect sealing surfaces to determine if reasonably smooth, clean and free from offsets. Use a high strength, non-shrink grout to fill areas smooth in the sealing area of the precast manhole section. Install rubber sleeve and the least number of extensions necessary to seal the area from the manhole frame to the cone section or flat top section of the precast manhole.

Remove all dirt and foreign material from the structure interiors.

## D Measurement

The department will measure Sanitary Sewer Manhole of each size as a unit complete in place up to a maximum of 8.0 feet depth measured from top of casting to invert, acceptably completed. Depths over 8.0 feet will be measured under the item of Sanitary Manhole Excess Depth size.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Sanitary Sewer Manhole w/Casting 4-FT Diameter	EACH

Payment is full compensation for excavation, backfilling, compaction, removal, and disposal of excess or unsuitable materials, manhole, casting frame and lid, chimney and frame seal, adjusting rings, adjustment, mortar, gaskets, rubber boots, mortar, outside drop pipe and fittings, concrete horseshoe and/or mortar encasing drop pipe, tee for drop pipe, connection to new pipes, and other items required for a complete installation.

### 33. **Connect to Existing Sanitary Sewer Main, Item SPV.0060.02; Connect to Existing Sanitary Sewer Service, Item SPV.0060.03.**

#### A Description

This special provision describes connecting existing sanitary sewers, manholes, services, to new sanitary sewers or manholes, or at temporary connections required to maintain service to customers at the locations shown on the plans and provided for by these specifications.

#### B Materials

Provide materials consistent with Item Sanitary Sewer and all appropriate fittings and adaptors.

#### C Construction

Maintain flow in sanitary sewers on a continuous basis while construction is underway. Plug sewers when required with inflatable plug and provide pumps, portable generators, hose, and related items to maintain flow during construction activities. When connecting a new sewer pipe to an existing sewer pipe, cut the ends of the existing sanitary sewer and connect to new sewer with pipe coupling adaptors made specifically for such reconnections. Explore all other options to try to avoid placing a flexible rubber coupling under the street. Keep a record of all such connections, locations, and materials used.

When connecting to an existing sanitary manhole core drill the appropriate size hole for the required manhole boot. Install the manhole boot and required pipe to the manhole. Connection will include using mortar to fill an existing sanitary opening in the manhole if required and to remove, form, and install a new flowline in the sanitary manhole if required.

When connecting to existing temporary sanitary manhole connection install the temporary manhole as required to maintain service during construction. Includes all connections to the existing and temporary sanitary sewer main at the temporary location and removal once proposed installations are in service.

When connecting to a service, remove the existing service line to the limits shown in the plans or to a location approved by the municipality. Cut the end of the existing pipe and make sure the existing service line is free and clear of debris. Connect to the new Sanitary Sewer Service line with a flexible rubber coupling. Install tracer wire from main to connection point and bring tracer wire to the surface at the connection point in cathodic test box.

When connecting an existing sanitary sewer to a new manhole, cut or extend existing pipe to fit into new manhole. Fit pipe with a watertight rubber gasket that is mortared into the manhole. Mortar will conform to standard spec 519.2.4 of the Standard Specifications. All fittings and masonry work will be supplied by the contractor.

#### D Measurement

The department will measure Connect to Existing Sanitary Sewer Main or Service as a unit, regardless of size, or pipe material, acceptably completed.

#### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Connect to Existing Sanitary Sewer Main	EACH
SPV.0060.03	Connect to Existing Sanitary Sewer Service	EACH

Payment is full compensation for excavation, backfilling, compaction, and disposing of excess or unsuitable material, couplings, core drilling, bypass pumping, manhole boots, and other items required for a complete installation.

**34. Sanitary Sewer Wye, 8-inch x 6-inch, Item SPV.0060.04;  
Sanitary Sewer Saddle, 8-inch x 6-inch, Item SPV.0060.05.**

**A Description**

This special provision describes furnishing and installing new sanitary sewer sanitary service wyes or saddles for connection between sewer main and sewer service pipe all as shown on the plans and provided by these specifications.

**B Materials**

Service wyes shall conform to materials specifications for adjacent pipe components. Provide fittings and pipe of each material type from the same manufacturer.

Sewer saddles shall be two-piece construction. The top shell section shall be a minimum of 14 ga and shall be made from T304 stainless steel with ASTM A240 and have a branch inlet attached to the top shell with an outside seam MIG weld. The branch inlet shall be configured to accept a branch line at a 45-degree angle to the main line. The back shell section shall be a minimum of 18 ga and shall be made from T304 stainless steel according to ASTM A240. The saddle shall have a minimum of one stud/receiver assembly per side. The saddle shall mount to the mating main line. Branch inlets shall be T304 stainless steel, according to ASTM A240, with a length sufficient for use with a non-shear rubber coupling. Bolts and nuts shall be 5/8 UNC, 18-8 stainless steel. Nuts shall be coated with a fluoropolymer coating to prevent galling. Washers shall be nylon and 18-8 stainless steel. Mainline gasket shall be a gridded mat, with tapered ends and an opening for the branch line.

**C Construction**

The location and size of sanitary sewer services as shown on the plans are approximate. Actual locations and size may vary from what is shown.

Installation of pipe shall conform to ASTM D2321. There shall be no mixing of different manufacturer's pipe or fittings on a project. Compact haunching area to specified density required by ASTM D2321.

Pipes shall be fitted together and matched so when laid they will form a sewer with a smooth and uniform invert.

Install gaskets and forms according to manufacturer's recommendations for use of lubricants, cements, and other special installation requirements.

Trench Excavation Requirements shall conform to specifications listed within Sanitary Sewer special provisions.

All trench excavation and backfilling, including backfill material, compaction, and dewatering shall be considered incidental. All work shall be done by open trench excavation.

Record the location, size, length, and number of bends on services on a record drawing. Measure service locations from the closest downstream manhole. Submit sanitary record drawings to the engineer and Utility upon completion of the sanitary portion of the project.

Reconnect services to the existing sewer and adjusting service without damage to the pipe. Proper watertight joints must be made.

**D Measurement**

The department will measure Sanitary Sewer Service Wye or Saddle of each size as a unit, acceptably completed.



## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	Sanitary Sewer Wye, 8-inch x 6-inch	EACH
SPV.0060.05	Sanitary Sewer Saddle, 8-inch x 6-inch	EACH

Payment is full compensation for excavation, backfilling, compaction, removal and disposal of excess or unsatisfactory material, couplings, drilling into the existing sanitary sewer main, saddle, wye and other items required for a complete installation.

## 35. Exploratory Excavation, Item SPV.0060.06.

### A Description

This special provision describes potholing to uncover sanitary or water mains or service lines for the purpose of determining elevation and potential conflicts between the proposed water main or services with storm sewer pipe or sanitary sewer pipe as called out on the plan or as directed by the engineer. This item is also used to determine utility horizontal and vertical locations if required.

### B (Vacant)

### C Construction

Pothole each sanitary or storm sewer in a manner that it is not damaged, and the safety of the workers is not compromised. The potholing will be performed as soon as possible and at least 10 days in advance of proposed storm sewer construction to allow any conflicts to be resolved with minimal disruption. Any damage to a sanitary, water, or storm sewer line during excavation shall be repaired to maintain service as part of this item.

Potholing will include an excavation sufficient locate the intended utility. Coordinate all potholing with the engineer and City of Osseo giving a minimum of 3 working day notice prior to the work so they may be present when the work is completed.

### D Measurement

The department will measure Exploratory Excavation as each individual excavation opening, 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.0060.06	Exploratory Excavation	EACH

Payment is full compensation for excavation, backfilling and disposing of excess or unsuitable material, repairing any damaged utility lines, and for adjusting construction operations if adjustments to the sanitary sewer line are found necessary.

## 36. Remove Existing Hydrant and Lead, Item SPV.0060.07; Remove Existing Gate Valve, Item SPV.0060.08.

### A Description

This special provision describes removing existing gate valves, boxes, hydrants, and lead piping at locations shown on the plans and hereinafter provided.

### B (Vacant)

### C Construction

Remove existing water system features according to Chapter 4.8.0, Wisconsin Water and Sewer Specifications and plan details. Remove features at locations shown on plan sheets and locations required to install new system appurtenances. All removed valves and hydrants shall become property of the City of Osseo. Contact the City of Osseo to coordinate.

Where hydrant leads and valves have been removed seal the existing water main pipe at that location.

Backfill excavation with granular backfill Grade 2. Compact according to standard spec 206.3.13.1.

**D Measurement**

The department will measure Remove Existing Hydrant and Lead and Remove Existing Gate Valve and Box as each individual unit, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Remove Existing Hydrant and Lead	EACH
SPV.0060.08	Remove Existing Gate Valve	EACH

Payment is full compensation for removing water system feature and pipes; removing and transporting used valves and hydrants, leads, and fittings to the City of Osseo department building at 50513 Honey Lane, Osseo, WI; sealing existing water pipes; excavation and backfilling material, compacting, for properly disposing of materials not wanted by the City of Osseo, and other items required for a complete installation.

**37. Connect to Existing Water Main, Item SPV.0060.09.**

**A Description**

This special provision describes cutting into and connecting new water main to existing water main as shown on the plans and as provided by these specifications.

**B Materials**

Use materials consistent with Water Main and Water Main Fittings sections of these special provisions. Seal pipes with materials required in Section 204 of the State of Wisconsin Standard Specifications 2025 Edition.

**C Construction**

Connecting to Existing Water Main will conform to industry standards. Only representatives of the City of Osseo are permitted to operate valves on existing system. The contractor will give the City of Osseo at least 72-hour notice when it is necessary to take an existing water main out of service.

Disinfect all connection materials with a 50 parts per million chlorine solution.

Disruption of water service will be during a low usage period or when it is the least inconvenient to the user. The contractor will have all proper materials and equipment immediately on hand when a water main is taken out of service for connection.

Seal all existing water main pipe left in place as described and required in standard spec 204.3.3.2.

**D Measurement**

The department will measure Connect to Existing Water Main as a unit per each, regardless of size, 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.0060.09	Connect to Existing Water Main	EACH

Payment is full compensation for cutting existing water main, removing any plugs or pipe, connecting to existing water main, furnishing and placing all materials, including any required connecting sleeves and fittings; sealing any existing pipe left in place, and other items required for a complete installation.

**38. Lower Water Main, Item SPV.0060.10.**

**A Description**

This special provision describes lowering a new water main using fittings to depths below the typical 8 feet below finished grade and installing all fittings necessary for the installation. This is done to allow installation below sanitary sewer or storm sewer facilities as shown on the plans and as provided by these

specifications. Lowering the existing water main using deflection and maintaining an installation depth greater than 8 feet to avoid sanitary or storm conflicts shall be considered incidental to the Water Main item being installed and shall be the preferred method to avoid sanitary sewer services.

**B Materials**

Use materials consistent with Water Main and Water Main Fittings sections of these special provisions and the details shown in the plans.

**C Construction**

Cut the new water main at a location that allows for 45 degree bends to be installed and the water main pipe meet the 18-inch minimum vertical clearance requirement from edge of water main pipe to edge of storm sewer or sanitary sewer pipe. Lower water main as shown on the plans and provided in these specifications. Install water main according to Chapter 4, Wisconsin Water and Sewer Specifications, with the exception that lead joints are not allowed.

**D Measurement**

The department will measure Lower Water Main as a unit per each, regardless of size, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Lower Water Main	EACH

Payment is full compensation for lowering water main, cutting pipe, providing and installing fittings and insulation, excavation, backfilling, compaction, polyethylene sheeting, and other items required for a complete installation. Payment under this bid item does not include compensation for water main pipe which will be paid for as a separate bid item.

**39. Gate Valve and Box 6-inch, Item SPV.0060.11;  
Gate Valve and Box 8-inch, Item SPV.0060.12;  
Gate Valve and Box 12-inch, Item SPV.0060.13.**

**A Description**

This work shall consist of furnishing and installing water main gate valves and valve boxes.

**B Materials**

Gate valves are to be resilient-seated valves meeting the requirements of A.W.W.A. Standard C515 and shall be designed for 200 psi working pressure. The gate valves are to have mechanical joint end, with ASTM F593 and F594 Type 304 stainless steel bolts and nuts. Stem to be non-rising operating stem with "O" ring seals, and a 2-inch square operating nut, that opens left (counterclockwise). An open indicating arrow, the manufacturer's name, pressure rating, size, and year of manufacture are to be cast on the body of the valve. Valves shall be American Flow Control.

All valves are to be provided with vertical valve boxes, buffalo type, with lid marked "WATER." Valve boxes are to be cast iron, 5-1/4-inch diameter shaft and adjustable. Valve boxes are to be provided with 8 feet of cover, except where greater depths are indicated on the profiles of the plans. Valve boxes are to be at least three pieces with sufficient adjustment to provide at least 6 inches of adjustment above and below grade. Install all extension sections in the middle of the box and not stacked on top.

Provide a 1/4-inch steel frame gate valve adapter with UV Polyurethane protective coating and 3/4-inch custom-fitted rubber gasket installed between gate valve and gate valve adapter. The gate valve adapter shall be installed on the valve prior to placing bonnet section of valve box assembly.

**C Construction**

Set valves with stems vertical and plumb on subgrade material adequate to support valve assembly. Place concrete block under valve and firmly support valve boxes and maintain them center and plumb over the wrench nut of the valve utilizing adaptor. Verify that box remains plumb and centered during backfill, with box cover adjusted to the final surface or at such other level as may be directed. See detail in plans.

## D Measurement

The department will measure Gate Valve and Box 6-inch, Gate Valve and Box 8-inch, and Gate Valve and Box 12-inch as each individual valve, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.11	Gate Valve and Box 6-inch	EACH
SPV.0060.12	Gate Valve and Box 8-inch	EACH
SPV.0060.13	Gate Valve and Box 12-inch	EACH

Payment is full compensation for excavating, backfilling, dewatering, valve box and cover, gate valve adaptor, sheeting, polyethylene sheeting, shoring, for furnishing and installing gate valves, adjusting valve box height, for furnishing and installing bolts, nuts, and gaskets, and other items required to complete the work.

## 40. Hydrant 8.5-FT Bury Depth, Item SPV.0060.14.

### A Description

This special provision describes furnishing and installing new fire hydrant, connecting couplings, crushed rock, polyethylene sheeting, concrete base, and blocking, all as shown on the plans and as provided by these specifications. Hydrant to have minimum 8 feet of cover to the top of the service pipe as shown on the plans.

### B Materials

Fire hydrants are to meet the requirements of AWWA Standard C502. Hydrants shall be Waterous Pacer WB67-250 with a 28-inch upper stand pipe length and 36-inch nozzle elevation above ground line. The hydrants shall have two 2 1/2-inch hose connections and one 4.5-inch steamer connection with national standard threads and caps and chains. Hydrants shall have a 16-inch traffic breakoff. Hydrants shall open left and be provided with a drain to operate only when the hydrant is closed. Hydrants will have a 6-inch mechanical joint hub with ASTM F593 and F594 type 304 stainless steel bolts and nuts, dry barrel with minimum 5 1/4-inch valve, an "O" ring stem seal, and pentagon nut type nozzle cups complete with chains, and have 8.0 feet of cover above the top of the hydrant lead pipe to finished surrounding surface. Hydrants shall be painted red and include permanent markings with manufacturer's name, year of manufacture, and bury depth. Hydrants shall have minimum 250 psi working pressure and red in color. Hose nipples shall be bronze or non-corrosive. Operating stem nuts shall be 1 1/2 inches, from point to opposite flat and pentagon shaped.

Fire Hydrant Tracer Wire Kit for hydrants shall include PVC cap, zinc plated coupler nut, powder coated bracket, hardened steel set screws, and zinc plated nut. Length shall be 36-inch.

### C Construction

Locate fire hydrants as indicated in the plans, or as directed by the city or engineer, and place as shown on the details of the plans. Verify that subgrade material is adequate to support hydrant and place thrust block according to drawing details. Hydrant leads shall be 6-inch minimum pipe diameter. Install and maintain hydrant in a plumb position with a block under the base. After each hydrant has been set, place around the base of the hydrant 1 cubic yard of 1 1/2-inch washed rock. Place two layers of 10 mil polyethylene over the rock to prevent backfill material from entering voids in the rock. Disinfect and test hydrants in conjunction with and as part of the mainline disinfection and testing process. Install tracer wire upside of hydrant and into cathodic test box. Cathodic test box shall be connected to the barrel of the hydrant and have the tracer wire connected to the terminal with a minimum of 1 foot of slack in the tracer wire inside the ABS plastic body. See detail in plans.

Plug hydrant drain hole if hydrant is located where the groundwater is less than 8 feet. Also label hydrant with tag stating "Pump After Use."

### D Measurement

The department will measure Hydrant 8.5-ft Bury Depth as each individual hydrant, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Hydrant 8.5-ft Bury Depth	EACH

Payment is full compensation for furnishing and placing all materials, including hydrant, crushed rock and concrete base, polyethylene sheeting, cathodic test box, block, and other items required for a complete installation.

## 41. Connect to Existing Water Service, Item SPV.0060.15.

### A Description

This special provision describes connecting to existing water services as shown on the plans and hereinafter provided.

### B Materials

Use materials consistent with Water Main and Water Main Fittings sections of these special provisions and the details shown in the plans. Reducers or adaptors from various pipe materials and sizes may be required to connect to existing water services.

### C Construction

Follow the requirements of Chapter 5 of Wisconsin Water and Sewer Specifications. Make connections to existing services with compression fittings. Use of appropriate fittings, couplings, and adaptors to make service connections is incidental to the connection. At locations where new curb stops are being connected to existing services, remove old curb box and properly dispose of it. Removal and disposal are incidental to the connection.

### D Measurement

The department will measure Connect to Existing Water Service as a unit per each, regardless of size or fittings required, acceptably completed.

### E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.15	Connect to Existing Water Service	EACH

Payment is full compensation for furnishing and placing all materials, fittings, adaptors, polyethylene sheeting, reducers, and other items required for a complete installation.

## 42. Corporation Stop 1-inch, Item SPV.0060.16; Corporation Stop 2-inch, Item SPV.0060.17.

### A Description

This special provision describes furnishing and installing water service corporation stops all as shown on the plans, as further directed by the engineer in the field and as provided by these specifications.

### B Materials

Corporation stops are to be manufactured according to AWWA C800 and ASTM B62. Corporation stops are to be ball valve type with double O-ring seals. Outlet shall have compression connection with stiffeners for polyethylene tubing. Service saddles shall be double bolt and stainless steel.

### C Construction

Place a double wrap of Teflon tape on the corporation stop threads prior to installation in the main. Install corporation stops in the upper quadrant of the pipe. Provide watertight connection with approved tapping machine and install under main pressure.

Disinfect each corporation stop by immersing it into a 50 parts per million chlorine solution.

The contractor will record the location and size of each corporation stop on a record drawing. Corporation stop locations are to be measured from the closest valve. Submit record drawings to the City of Osseo upon completion of the water main portion of the project.

**D Measurement**

The department will measure Corporation Stop of each size as each individual corporation stop, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.16	Corporation Stop 1-Inch	EACH
SPV.0060.17	Corporation Stop 2-inch	EACH

Payment is full compensation for furnishing and placing all materials; tapping the water main, saddles, fittings, excavation, backfilling, removal and disposal of excess or undesirable material, and other items required for a complete installation.

**43. Curb Stop & Box 1-inch, Item SPV.0060.18;  
Curb Stop & Box 2-inch, Item SPV.0060.19.**

**A Description**

This special provision describes furnishing and installing water service curb stop valves and boxes all as shown on the plans, as further directed by the engineer in the field and as provided for by these specifications.

**B Materials**

Curb stops shall conform to AWWA C800 and have Minneapolis pattern ball type valve with double O-ring sealers. Inlet and outlet shall have conductive compression connection with stiffeners for polyethylene tubing.

Curb boxes will be Minneapolis pattern base, have minimum 1 1/4 inch inside diameter upper section, and be adjustable 6 inches up and down for 8.0 feet of cover. Bottom threads of curb box will match top threads of curb stop. Lid marked "WATER" with pentagon threaded brass plug. Provide a stainless steel shut-off rod extension for curb stop. The underside of the curb box cover shall have attachment for tracer wire.

**C Construction**

Locate curb stop and box as shown on the plans. Verify that subgrade material is adequate to support the curb box assembly and install boxes plumb and centered over the tee head. Backfill to avoid displacement or bending of the curb box.

Disinfect each curb stop by immersing it into a 50 parts per million chlorine solution.

Adjust box cover to the required grade and key all curb stops after backfilling to ensure proper location. Include cleaning the box top of all concrete splash. Install tracer wire as shown on plans.

**D Measurement**

The department will measure Curb Stop and Box of each size as each individual stop, 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.0060.18	Curb Stop and Box 1-inch	EACH
SPV.0060.19	Curb Stop and Box 2-inch	EACH

Payment is full compensation for the curb stop, box, lit, rod extension, precast block, polyethylene sheeting, tracer wire attachment, adjustment, and other items required for a complete installation.

**44. Adjust Existing Gate Valve Box, Item SPV.0060.20.**

**A Description**

This special provision describes making final adjustments to new and existing gate valve boxes located in new pavements all as shown on the plans and provided by these specifications, however, only existing gate valve boxes are eligible for payment.

**B Materials**

Contractor shall install extensions as required to bring valve box to final grade. Valve boxes damaged by the contractor shall be replaced without cost according to Item Gate Valve and Box.

**C Construction**

Gate valve boxes will be adjusted to be ½ inch below new pavement according to plan details, or to an elevation as directed by the engineer.

Existing gate valve boxes located in construction areas will be lowered, covered, and protected to allow grading and base course installation. The base course will remain in place until paving operations permit setting the valve box to finished grade.

Boxes to be adjusted shall be protected and paved over during the first lift(s) of paving. Once pavement has cooled, contractor shall then remove asphalt and adjust box up to the final elevation before final paving layer. Removal of pavement for adjustments, shall be with clean saw cut and patched prior to surface layer placement. Saw cuts shall be circular or diamond shaped. Asphalt shall be patched and compacted up to the level of the first paving lift.

All steps of the adjusting valve box process are incidental to this item.

**D Measurement**

The department will measure Adjust Existing Gate Valve Box as each individual valve, 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.0060.20	Adjust Existing Gate Valve Box	EACH

Payment is full compensation for cast iron adjustment rings, adjusting the existing gate valve, storing or salvaging materials for later incorporation into the work, and other items required for a complete installation.

**45. Maintain Water Service During Construction, Item SPV.0060.21.**

**A Description**

This special provision describes maintaining water service to all collective customers (businesses and residences) throughout the construction project, as a single item covering all phases and portions of work, for the entire duration of the project.

**B Materials**

Use materials consistent with Water Main and Water Main Fittings sections of these special provisions and the details shown in the plans.

**C Construction**

Contractor to maintain continuous water service to all businesses and residences during construction whether using the existing water main and services or setting up one or more temporary water systems that receive the approval of the City of Osseo. Safe water samples shall be taken of the temporary water lines prior to placing them in service, matching the requirements of the Water Main specification.

**D Measurement**

The department will measure Maintain Water Service During Construction as each unit per project, acceptably completed. Item will be measured as one total unit for the entire project, regardless of number of connections, setups, phases, or time duration necessary for maintaining water service throughout the total period of construction.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.21	Maintain Water Service During Construction	EACH

Payment is full compensation for connecting to existing water main, cutting pipes, providing and installing fittings and adaptors, connections, temporary accommodations, coordination, excavations, backfilling, compaction, piping, removals, maintenance, piping of any size required, pedestrian accommodations, city and resident communication, testing, base aggregate dense or other materials used to get traffic over the piping, removal of any materials used, and other items required to complete the installation and successfully maintain continuous water service to all customers throughout construction.

## 46. Water Valve Manhole w/Casting 6-FT Diameter, Item SPV.0060.22.

### A Description

This special provision describes furnishing and installing new water valve manholes, castings and connecting to water main pipe, all as shown on the plans according to standard spec 611 and as provided by these specifications.

### B Materials

Precast concrete riser sections and appurtenant units (top and base slab, special sections, etc.) used in the construction of manholes will conform to the requirements of ASTM C 478, subject to the following provisions.

Joints of riser sections are to be tongue and groove with gasketed joints. Top cone shall be eccentric. Inlet and outlet pipes will be joined to the structure with flexible, watertight rubber boot arrangement that allows differential settlement of the pipe and manhole to take place. Connecting pipes to structures with grouting only is not acceptable.

Base sections of all structures will consist of monolithic base and bottom section of barrel. No joints will be allowed between base and bottom of barrel.

Provide 12 inches wide steps, which shall be cast aluminum or polypropylene coated steel.

Water castings for water structures such as manhole frames and covers will conform to the requirements of ASTM A48 (gray iron castings). Lid-to-frame surfaces on round casting assemblies will be machine milled to provide true bearing around the entire circumference.

Manhole castings shall be Neenah R-1642 with non-rocking lids and 2 concealed pick holes or approved equal.

Provide and install external flexible rubber frame seal and where necessary, an interlocking extension or extensions, sealing the entire chimney of sanitary manholes. The seal and extension or extensions shall extend from the lower base flange of the frame down to the top of the manhole cone.

Chimney and frame seal rubber sleeve and extension. Flexible rubber sleeve and extensions shall be extruded or molded from a high grade rubber compound conforming to the applicable material requirements of ASTM C923, with a minimum 1500 psi tensile strength, maximum 18% compression set and a hardness (durometer) of 48+/- 5. The rubber sleeve shall be corrugated, with a minimum thickness of 3/16 inches with an unexpanded vertical height of 9 inches. The top section of the sleeve shall contain multiple sealing fins and be designed to extend both over and under the manhole frame's base flange allowing it to be mechanically locked to the frame. The bottom section of the sleeve shall contain an integrally formed compression band recess and a series of sealing fins to facilitate a watertight seal. The extension shall have a minimum thickness of 3/16 inches. The top portion of the extension shall be shaped to fit into the bottom band recess of the sleeve and have its own integrally formed band recess located such that when assembled this recess is centered over that of the sleeve. The bottom section of the extension shall contain an integrally formed compression band recess and multiple sealing fins matching that of the rubber sleeve.

Chimney and frame seal bands. Provide minimum 1-inch wide compression band to compress the sleeve against the manhole integrally formed from 16 gauge stainless steel conforming to the applicable material requirements of ASTM C923, Type 304, with no welded attachments. The top compression band shall have a shape and width sufficient to, when tightened, will mechanically lock the sleeve to the manhole frame's base flange. The lower compression band shall be a flat strip to allow placement into the lower band recess of the seal and/or extension. The tightening mechanism on both bands shall have capacity to develop the



pressures necessary to make a watertight seal and shall have a minimum adjustment range of 2 diameter inches. Screws, bolts, and nuts used on the bands shall be stainless steel conforming to ASTM F593 and F594, Type 304.

Provide corporation stops according to the requirements as described under the item for corporation stops 1-inch and as shown on the plans.

Gate valves are to be resilient-seated valves meeting the requirements of A.W.W.A. Standard C515 and shall be designed for 200 psi working pressure. The gate valves are to have flanged joint end, with ASTM F593 and F594 Type 304 stainless steel bolts and nuts. Stem to be non-rising operating stem with "O" ring seals, and a 2-inch square operating nut, that opens left (counterclockwise). An open indicating arrow, the manufacturer's name, pressure rating, size, and year of manufacture are to be cast on the body of the valve. Valves shall be American Flow Control.

### **C Construction**

Construct water manholes according to plan details and elevations.

Provide trench excavation, foundations, and backfill according to the requirements as described under the item for water main. Place precast manhole base on compacted granular subgrade.

All trench excavation and backfilling, backfill material, compaction, and minor dewatering shall be considered incidental.

Connect to water main pipes. Any required coupling adaptors required will be included.

Set valves with stems vertical and plumb inside the water manhole. See detail in plans.

Locate steps within 1 inch of vertical alignment and within 1 inch of required vertical spacing. Maximum allowable deviation from staked and plan location is within 0.30 feet horizontal and 0.03 feet vertical.

Provide adjusting rings according to plan details to establish required casting elevations. Set lowest adjusting ring on a full mortar bed for leveling after dry stacking rings to check proper grade. Adjust new sanitary sewer manhole castings to final grade between paving lifts according to manhole adjustment item.

Install chimney and frame seal according to the manufacturer's recommendations. Inspect sealing surfaces to determine if reasonably smooth, clean and free from offsets. Use a high strength, non-shrink grout to fill areas smooth in the sealing area of the precast manhole section. Install rubber sleeve and the least number of extensions necessary to seal the area from the manhole frame to the cone section or flat top section of the precast manhole.

Remove all dirt and foreign material from the structure interiors

### **D Measurement**

The department will measure Water Valve Manhole of each size as a unit complete in place regardless of depth, 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.0060.22	Water Valve Manhole w/Casting 6-FT Diameter	EACH

Payment is full compensation for excavation, backfilling, compaction, removal, and disposal of excess or unsuitable materials, manhole, casting frame and lid, chimney and frame seal, gate valve and all fittings, installing all bolts, butts and gaskets, flanged connection to new water main pipes, adjusting rings, adjustment, mortar, gaskets, rubber boots, mortar, fittings, corporations, connection to new pipes, mechanical joint adaptors, adjustment to casting, manhole depth in excess of 8-ft, and other items required for a complete installation.

## **47. Bollard, Item SPV.0060.23.**

### **A Description**

This special provision describes furnishing and installing bollards at locations as detailed in the plans and hereinafter provided.

### **B Materials**

1535-07-73, 1535-07-74

Fabricate pipe bollards from schedule 80 galvanized steel pipe. Provide concrete according to standard spec 501 conforming to Grade A, A-FA, A-S, A-T, A-IS, A-IP, and A-IT.

### **C Construction**

Paint the bollards as specified in standard spec 517.2.4, color red.

Paint the bollards according to standard spec 517.3. For the portion of the bollard that will be fully encased in concrete, apply only the zinc-rich primer as specified in standard spec 517.3.1.7.2.

Excavate to the depth shown in the plans. Remove water or other foreign material from the excavation and inside the pipe before placing concrete. Place concrete in the excavation and inside pipe in a continuous operation at a rate that will not cause air pockets. The concrete shall not have cold joints. Fill the pipe completely with concrete and consolidate to a depth of at least 4 feet with a mechanical vibrator or by other engineer-approved method.

Protect the bollards from damage to the paint during transportation, storage, placement, and concrete placement. Repair any damaged paint according to standard spec 517.3.

### **D Measurement**

The department will measure Bollard as each individual bollard, 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.0060.23	Bollard	EACH

Payment is full compensation for providing pipe, concrete, and paint; for excavation; for placing concrete within the pipe and for the footing; for backfilling and disposing of surplus materials; and for repairs to the paint system.

## **48. Rectangular Rapid Flashing Beacon (RRFB) System, Item SPV.0060.24**

### **A Description**

This special provision describes furnishing and installing a solar powered Rectangular Rapid Flashing Beacon (RRFB) system according to standard spec 651. as directed by the engineer, and as hereinafter provided.

### **B Materials**

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

Conform the RRFB to all applicable FHWA and MUTCD standards and guidelines and meet or exceed the requirements specified in FHWA Memorandum IA-21, Interim Approval for Optional Use of Rectangular Rapid Flashing Beacons, and all FHWA Official Interpretations for IA-21.

Furnish a crosswalk assembly with two light bars mounted back-to-back. Provide three LED light arrays with each light bar: two rapidly and alternately flashing rectangular amber (vehicle) indications and one amber side-mounted (pedestrian) indication. Operate the system with one controller with remote hardwired light bars and pushbuttons. Provide a system capable of future operation with wireless communication between the push buttons, controller, and light bars.

Activate the RRFB system utilizing ADA compliant pedestrian push buttons that are hardwired.

Synchronize the activation and deactivation of all indications.

#### **B.2 Equipment Requirements**

Furnish a complete RRFB system multiple light bar assemblies. Each assembly shall consist of, but is not limited to, controller and electrical components (including wiring and solid-state circuit boards), and LED indications in a light bar. Include the following items:

##### **B.2.1. System**

- 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.

- When activated, all indications associated with a given crosswalk shall simultaneously commence operations within 120 msec and shall cease operation at a predetermined time (programmable timeout). The time shall reset after any pedestrian actuation.
- The duration of the flash cycle (timeout) shall be programmable from a minimum of 5 seconds to 60 minutes, in increments of seconds.
- Individual components shall be independently replaceable, equipped with approved terminal strips or wire-end molded connectors.

#### **B.2.2. RRFB Controller**

- Solid-state, digital controller capable of operating the RRFB as specified.
- Capable of storing input count data in preset intervals, with downloadable capabilities.
- Replaceable independently of other components.
- Completely programmable, including but not limited to, flash pattern and duration.
- An on-board user interface that provides system diagnostics and allows system setting changes.

#### **B.2.3. Control Circuit**

- The control circuit shall have the capability of independently flashing up to two independent outputs. The LED light outputs and flash pattern shall be completely programmable.
- The flashing output shall have 75 periods of flashing per minute with an 800-millisecond duration on time. The output shall reach the output current as programmed for the duration of the pulse.
- When two indications are mounted side-by-side, they shall have alternating but approximately equal periods of rapid pulsing light emissions and dark operation. Also, during each of the 70 to 80 flashing periods per minute, one of the indications shall emit two rapid pulses of light and the other indication shall emit three rapid pulses of light.
- Flash rates with the frequencies of 5 to 30 flashes/second shall not be used to avoid inducing seizures.
- When activated, the RRFB shall operate for a predetermined interval based on MUTCD procedures for timing of pedestrian clearance times for pedestrian signals. Coordinate with the department for this interval.
- To prevent continuous activation of the RRFB and to allow vehicular queue clearance, the RRFB shall be programmed to prevent actuation within 30 seconds of the termination of a previous activation.
- The control circuit shall be installed in an IP-67 NEMA rated enclosure.
- 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.
- All individual components of the system shall be replaceable to allow for easy field repair and maintenance.

#### **B.2.4. Wireless Radio**

Radio control shall operate on 900mhz frequency hopping spread spectrum or 2.4 Ghz ISM band mesh network radio.

Radio shall integrate with communication of RRFB system control circuit to activate light indications from pushbutton input.

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.

Radio systems shall operate from 3.6 VDC to 15 VDC.

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, and onboard diagnostics.

All individual components of the system shall be replaceable to allow for easy field repair and maintenance.

#### **B.2.5. Enclosure**

A NEMA Type 3R aluminum enclosure intended for indoor or outdoor use, primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from ice formation.

Of sufficient size to house all equipment furnished under this special provision and for future equipment for wireless operation.

Constructed from type 5052-H32 aluminum with a minimum thickness of 0.080 inch.

Vented to promote airflow for internal components. All vents and drains shall include screening to deter insects and foreign matter.

Include a replaceable #2 Corbin traffic lock and keys.

Utilize tamper-resistant stainless continuous steel hinges.

Include a removable control panel to which all control circuit components mount.

Utilize stainless steel mounting studs to accommodate bracket options.

#### **B.2.6. Battery**

The battery shall be a 12 VDC Absorbed Glass Mat (AGM) sealed lead-acid maintenance-free battery.

The battery shall be rated at 45AH minimum and shall conform to Battery Council International (BCI) specifications or battery system that is 14 Ah and is suitable for usage model and system autonomy requirements or approve equal.

All batteries shall be sealed in a plastic film to provide moisture and corrosion resistance.

The Batteries shall have a minimum operation temperature range of -76°F to 140°F (-60°C to 60°C).

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.

The battery shall be solar-charged with a capacity of a minimum of 14 days of autonomy without sunlight, varying with ambient temperature and number of activations. The battery shall provide for 300 activations of 20 seconds per activation. Solar calculations shall be provided.

#### **B.2.7. Solar Panel**

The Solar Panel shall provide a minimum of 10 watts and a maximum of 55 watts at peak total output or approved equal.

The Solar Panel shall be affixed to an aluminum plate and bracket, a minimum angle of 45 degrees to allow for maximum solar collection and optimal battery strength or approved equal.

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.

The Solar Panel shall have a minimum operating temperature range of -40°F to 185°F (-40°C to 85°C).

#### **B.2.8. Light Housing and Indications**

Furnish a black colored light bar housing constructed of durable, corrosion-resistant powder-coated aluminum with stainless steel fasteners.

Enclosed components shall be modular in design whereby any component can be easily replaced using common hand tools, without having to remove the housing from the pole.

All mounting hardware required for mounting the light bar housing shall be provided and universal to multiple poles.

Yellow indications of a minimum size of approximately 5-inch wide by 2-inch high.

Two indications shall be installed on an assembly facing each 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 inches measured from inside edge of one indication to inside edge of second indication.

A pedestrian LED indication shall be side mounted in the light bar housing: assembly to be mounted so it is directed toward, and visible to, pedestrians in the crosswalk.

The outside edges of the two indications, including any housing, shall not protrude beyond the outside edges of the integral signage of the assembly.

The light intensity of the yellow indications shall meet the minimum specifications of the Society of Automotive Engineers (SAE) standard J595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005 for Class 1 peak luminous intensity (candelas).

### **B.2.9. Sign**

All signs are to be supplied and installed under separate bid items. Construct RRFB assemblies to allow for appropriate space for the installation of the signs in the field as shown in the plans.

### **B.2.10. Hardware**

Furnish all hardware, connections, and other miscellaneous items to make the RRFB system fully operational.

All exposed hardware shall be anti-vandal.

### **B.2.11. The following items are to be supplied and installed under a separate bid item:**

- Pushbutton
- Pedestal Base
- Traffic Signal Standard
- Concrete Base

### **B.3 Warranty**

Provide a minimum of a three-year manufacturer or vendor warranty from the date of activation and acceptance by the engineer. Provide service information to the purchaser, consisting of at least parts manuals and operational/maintenance manuals.

### **C Construction**

The RRFB system consists of multiple assemblies to be constructed by the contractor as shown on the plans. Assemble RRFB with pedestrian activation per the manufacture's recommendations. Mount the controller cabinet, signage, light bar, and push buttons to the traffic signal standards as shown on the plans and per the manufacture's requirements. Mount the Pedestrian Indication LEDs to be visible to pedestrians in the crosswalk, and to flash concurrently with the vehicle indications to confirm that the RRFB is in operation.

Program the controller and make the RRFB system fully operational. The city will provide the flash operation timings. Instruct the city in programming and operation of the controller.

### **D Measurement**

The department will measure Rectangular Rapid Flashing Beacon (RRFB) System as each individual RRFB system, 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.0060.24	Rectangular Rapid Flashing Beacon (RRFB) System	EACH

Payment is full compensation for furnishing and installing a fully operational RRFB system including wire and all necessary mounting hardware and appurtenances, and for shop drawings, manuals, and warranty.

## **49. Inlet Covers Type H-D, Item SPV.0060.25.**

### **A Description**

This special provision describes furnishing and installing inlet covers according to the plan details, the pertinent requirements of standard spec 611 and as provided in this special provision.

### **B Materials**

Provide an Inlet Cover Type H-D frame and grate with the curb box removed and replaced with a solid flat curb plate designed for heavy traffic loading as shown in the plan details. Neenah R-3290-A casting or approved equal.

### **C Construction**

Construct according to standard spec 611.3.

### **D Measurement**

The department will measure Inlet Covers Type H-D as each individual unit, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.25	Inlet Covers Type H-D	EACH

Payment is full compensation for providing covers, including frames, grates, curb plates and all other required materials and for installing and adjusting each cover.

## 50. Adjusting Sanitary Manhole Covers, Item SPV.0060.26.

### A Description

This special provision describes making final adjustments to new and existing sanitary sewer manholes located in new pavements all as shown on the plans and provided by these specifications, however, only existing sanitary sewer manholes are eligible for payment.

### B Materials

Contractor shall install rings and mortar as required to bring sanitary manhole casting to final grade. Sanitary manhole castings damaged by the contractor shall be replaced without cost according to Item Sanitary Sewer Manhole w/Casting 4-FT Diameter.

Provide and install external flexible rubber frame seal and where necessary, an interlocking extension or extensions, sealing the entire chimney of sanitary manholes. The seal and extension or extensions shall extend from the lower base flange of the frame down to the top of the manhole cone.

Chimney and frame seal rubber sleeve and extension. Flexible rubber sleeve and extensions shall be extruded or molded from a high grade rubber compound conforming to the applicable material requirements of ASTM C923, with a minimum 1500 psi tensile strength, maximum 18% compression set and a hardness (durometer) of 48+/- 5. The rubber sleeve shall be corrugated, with a minimum thickness of 3/16 inches with an unexpanded vertical height of 9 inches. The top section of the sleeve shall contain multiple sealing fins and be designed to extend both over and under the manhole frame's base flange allowing it to be mechanically locked to the frame. The bottom section of the sleeve shall contain an integrally formed compression band recess and a series of sealing fins to facilitate a watertight seal. The extension shall have a minimum thickness of 3/16 inches. The top portion of the extension shall be shaped to fit into the bottom band recess of the sleeve and have its own integrally formed band recess located such that when assembled this recess is centered over that of the sleeve. The bottom section of the extension shall contain an integrally formed compression band recess and multiple sealing fins matching that of the rubber sleeve.

Chimney and frame seal bands. Provide minimum 1-inch wide compression band to compress the sleeve against the manhole integrally formed from 16 gauge stainless steel conforming to the applicable material requirements of ASTM C923, Type 304, with no welded attachments. The top compression band shall have a shape and width sufficient to, when tightened, will mechanically lock the sleeve to the manhole frame's base flange. The lower compression band shall be a flat strip to allow placement into the lower band recess of the seal and/or extension. The tightening mechanism on both bands shall have capacity to develop the pressures necessary to make a watertight seal and shall have a minimum adjustment range of 2 diameter inches. Screws, bolts, and nuts used on the bands shall be stainless steel conforming to ASTM F593 and F594, Type 304.

### C Construction

Sanitary Manholes will be adjusted to be ¼ to ½ inch below new pavement according to plan details, or to an elevation as directed by the engineer.

Notify the City of Osseo of any damaged sanitary sewer manhole frames, castings, lids, and chimney seals prior to starting construction. The contractor shall exercise caution in working adjacent to sanitary manholes in order to avoid damage to the existing casting and structure. Sanitary sewer manhole facilities damaged during construction shall be repaired or replaced at the contractor's expense.

Existing sanitary manholes located in construction areas will be lowered, covered, and protected to allow grading and base course installation. The base course will remain in place until paving operations permit setting the sanitary manhole to finished grade.

Provide adjusting rings according to plan details to establish required casting elevations. Set lowest adjusting ring on a full mortar bed for leveling after dry stacking rings to check proper grade. Adjust new

sanitary sewer manhole castings to final grade between paving lifts according to manhole adjustment item.

Install chimney and frame seal according to the manufacturer's recommendations. Inspect sealing surfaces to determine if reasonably smooth, clean and free from offsets. Use a high strength, non-shrink grout to fill areas smooth in the sealing area of the precast manhole section. Install rubber sleeve and the least number of extensions necessary to seal the area from the manhole frame to the cone section or flat top section of the precast manhole.

Remove all dirt and foreign material from the structure interiors.

#### **D Measurement**

The department will measure Adjusting Sanitary Manhole Covers as each individual cover, 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.0060.26	Adjusting Sanitary Manhole Covers	EACH

Payment is full compensation for adjustment rings, mortar mix, adjusting the existing sanitary manhole, temporary cover or plate, chimney seal, removing and reinstalling existing chimney seal, storing or salvaging materials for later incorporation into the work, and other items required for a complete installation.

### **51. Solar Powered Flashing Beacon – 12” LED System, Item SPV.0060.27.**

#### **A Description**

This special provision describes furnishing and installing a solar powered flashing beacon unit at the locations shown on the plans and as hereinafter provided.

#### **B Materials**

Furnish a solar powered Flashing Beacon assembly. System should include but not necessarily be limited to beacons, solar panels, batteries, and control unit. Any reference to bid items or section numbers in this specification shall refer to the WisDOT Standard Specifications for Highway and Structure Construction, Latest Edition. The assembly includes the following items:

##### **B.1 Control Unit**

- o The control unit shall have the capability of independently flashing up to two independent outputs. The LED light output, duty cycle, and time of day activation shall be programmable with automatic adjustments for daylight savings.
- o The flashing output shall be 50 to 60 flashes per minute with a 100 – 500 millisecond duration on time. The output shall reach the output current as programmed for the duration of the pulse.
- o The control unit shall automatically adjust LED output for maximum visibility for both day and nighttime operations. The day and nighttime mode will automatically be determined by solar panel charge input.
- o The control unit shall be potted in an epoxy resin housing to be waterproof and cabinet mounted.
- o 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.

##### **B.2 Enclosure**

- o A NEMA Type 3R aluminum enclosure intended for indoor or outdoor use, primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from ice formation.
- o Of sufficient size to house all equipment furnished under this special provision and for future equipment for wireless operation.

- o Constructed from type 5052-H32 aluminum with a minimum thickness of 0.080 inch.
- o Vented to promote airflow for internal components. All vents and drains shall include screening to deter insects and foreign matter.
- o Include a replaceable #2 Corbin traffic lock and keys.
- o Utilize tamper-resistant stainless continuous steel hinges.
- o Include a removable control panel to which all control circuit components mount.
- o Utilize stainless steel mounting studs to accommodate bracket options.

### **B.3 Battery**

- o The battery shall be a 12 VDC Absorbed Glass Mat (AGM) sealed lead-acid maintenance-free battery.
- o The battery shall be rated at 45AH minimum and shall conform to Battery Council International (BCI) specifications or battery system that is 14 Ah and is suitable for usage model and system autonomy requirements or approve equal.
- o All batteries shall be sealed in a plastic film to provide moisture and corrosion resistance.
- o The Batteries shall have a minimum operation temperature range of -76°F to 140°F (-60°C to 60°C).
- o 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.
- o The battery shall be solar-charged with a capacity of a minimum of 14 days of autonomy without sunlight, varying with ambient temperature and number of activations. Solar calculations shall be provided.

### **B.4 Solar Panel**

- o The Solar Panel shall provide a minimum of 13 watts peak total output sized for the location climate.
- o The Solar Panel shall be affixed to an aluminum plate and bracket, a minimum angle of 45 degrees to allow for maximum solar collection and optimal battery strength or approved equal.
- o 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.
- o The Solar Panel shall have a minimum operating temperature range of -40°F to 185°F (-40°C to 85°C).

### **B.5 LED Beacons**

- o There shall be two beacons per pole.
- o The housing for the beacon shall meet all of the requirements of standard spec 658.
- o The LED Beacons shall be 12" yellow and meet the requirements of standard spec 658.

### **B.6 Sign**

- o All signs are to be supplied and installed under separate bid items. Construct Solar Powered Flashing Beacon – 12" LED System assembly to allow for appropriate space for the installation of the signs in the field as shown in the plans.

### **B.7 Hardware**

- o Furnish all hardware, connections, and other miscellaneous items to make the Solar Powered Flashing Beacon – 12" LED System fully operational.
- o All exposed hardware shall be anti-vandal.

### **B.8 The following items are to be supplied and installed under a separate bid item:**

- o Pedestal Base



- o Traffic Signal Standard
- o Concrete Base

**B.3 Warranty**

Provide a minimum of a three-year manufacturer or vendor warranty from the date of activation and acceptance by the engineer. Provide service information to the purchaser, consisting of at least parts manuals and operational/maintenance manuals.

**C Construction**

Perform work and construct the beacon according to standard spec 655, 657, and 658.

Program the controller and make the Solar Powered Flashing Beacon – 12” LED System fully operational. The City will provide the flash operation timings. Instruct the City in programming and operation of the controller.

**D Measurement**

The department will measure Solar Powered Flashing Beacon – 12” LED System as each individual system, 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.0060.27	Solar Powered Flashing Beacon – 12” LED System	EACH

Payment is full compensation for furnishing and installing a fully operational Solar Powered Flashing Beacon – 12” LED System including wire and all necessary mounting hardware and appurtenances, and for shop drawings, manuals, and manufacture warranty.

**52. Water Main Fittings, Item SPV.0085.01.**

**A Description**

This special provision describes furnishing and installing the necessary joint fittings as shown on the plans, as directed by the engineer in the field, and as provided by these specifications.

**B Materials**

The Water Main Fittings shall be AWWA C153, ANSI A21.53, cement-lined ductile iron fittings. Mechanical joints shall use corrosion resistant bolts and nuts. Mechanical joint restraints shall consist of multiple gripping wedges incorporated into a follower gland meeting the applicable requirements of ANSI/AWWA C101/A21.10, and have a working pressure of 350 psi. All mechanical joint restraints shall be manufactured in the United States and include a cast identification number consisting of year, day, plant, and shift, referenced to material traceability records related to strength, chemical and nodularity tests performed on during production.

**C Construction**

Water Main Fittings shall be mechanical type. Joint conductivity shall be provided by means of external copper jumpers across all fitting connections, including mechanical restrained joints. Each joint shall be capable of carrying 500 amps for an extended period. Tracer wire shall be used in lieu of copper jumpers if C900 water main is specified.

Anchorage of Bends, Tee’s, Plugs, and Valves: Place concrete blocking at all plugs, bends, and tees and between the fitting and the undisturbed trench wall. Blocking shall be a minimum of 12 inches thick and the minimum area in square feet as follows:

<b>Tee Pipe</b>	<b>Or Plug Sq Ft</b>	<b>1/4 Bend Sq Ft</b>	<b>1/8 Bend Sq Ft</b>	<b>1/32 1/16 Bend Sq Ft</b>
6"	2.9	3.1	1.6	0.8
8"	3.7	5.3	2.9	1.4
10"	5.7	8.1	4.4	2.2
12"	8.1	13.4	6.6	3.2
16"	15.1	21.4	11.6	5.9
20"	23.2	30.2	18.1	9.3
24"	33.6	48.5	26.1	13.3

Size blocking based on larger main at junctions. Ductile Iron Retainer Glands shall be placed on all fittings.

Place on joints of all dead ends 6 inches through 12 inches commencing with the branch fitting.

May be used on ductile iron pipe 6 inches through 12 inches in lieu of tie rods.

Place on all joints as indicated on the details shown on the plans, including typical fire hydrant installation, bed detail and typical gate valve and box installation.

#### **D Measurement**

The department will measure Water Main Fittings, in place, by the pound, as listed for Fittings 3 inches to 16 inches in ANSI/AWWA C153/A21.53.88, acceptably completed. The weight of the fittings shall be without joint accessories, bolts, nuts, or mechanical joint retainer glands.

#### **E Payment**

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

<b>ITEM NUMBER</b>	<b>DESCRIPTION</b>	<b>UNIT</b>
SPV.0085.01	Water Main Fittings	LB

Payment is full compensation for fittings, bolts, nuts, gaskets, equipment, joint accessories, polyethylene sheeting, and all items required for a complete installation.

### **53. Sanitary Sewer Service PVC 6-inch, Item SPV.0090.01.**

#### **A Description**

This special provision describes furnishing and installing new sanitary sewer sanitary service and riser pipe all as shown on the plans and provided by these specifications.

#### **B Materials**

Pipes shall conform to the following:

<b>Description</b>	<b>Class or Type</b>	<b>Specification</b>	<b>Joint</b>
PVC Sewer Service Pipe	SDR 26	ASTM D3034	Elastomeric Gasket

Provide fittings and pipe of each material type from the same manufacturer.

Provide tracer wire and test access box for each sanitary sewer service lateral. Wire shall be 12-gauge UL-listed solid copper wire with plastic insulation suitable for direct bury installation. All wire, connectors, and installation shall be according to the National Electric Code. Outer color green. Test access box shall be 24-inch high, 2.5-inch shaft diameter with flared bottom, ABS plastic body, including cast iron rim and lid marked "SEWER" with terminal blocks for wire connection.

#### **C Construction**

The location and size of sanitary sewer services as shown on the plans are approximate. Actual locations and size may vary from what is shown.

During the unloading process, all pipe and accessories shall be inspected by the contractor. Notify the engineer of all material found defective. The engineer shall inspect the material and have the right to reject any materials found unsatisfactory. Promptly remove all rejected material from the job site. Remove all foreign matter from the inside of the pipe before lowered into its position in the trench. Keep pipe clean by approved means during and after laying.

Removal of existing facilities, trench excavation and backfill and restoration shall be according to the provisions of these specifications.

Lay and maintain all pipe to the lines and grades shown on the plans. Install service pipe at a minimum of 1 percent to a maximum of 2 percent grade. No pipe shall be laid in water or when the trench conditions are unsuitable for such work, except by permission of the engineer. Place watertight plug at end of service pipe. Mark end of service pipe with a 4 by 4 timber set below grade.

Riser pipes shall be extended from the service wye connection at 45-degrees above horizontal to an elevation as required to serve the surrounding property as directed by the engineer. Install riser pipe against undisturbed trench wall.

Removal and disposal of existing sanitary sewer service materials, regardless of size or pipe material, shall be considered incidental to the work.

Installation of pipe shall conform to ASTM D 2321. There shall be no mixing of different manufacturer's pipe or fittings on a project. Compact haunching area to specified density required by ASTM D2321.

Install tracer wire along entire length of service riser and pipe, from wye to service end and up to access box, taped to top center. Avoid splices and underground connections. If splices are required, provide UL-listed moisture proof connectors, self-sealing compression or heat shrink type. Allow at least 2 feet excess tracer wire to remain coiled beneath test box. Locate test box at property line or as directed by engineer or owner. Mark location with steel fence post or as directed by engineer or owner.

Pipe laying shall proceed from the lowest end of the grade and bell ends of the pipe shall face upgrade. Pipe, which has in any way been disturbed or does not conform to said line and grade before final acceptance, shall be removed and relaid by the contractor at the contractor's expense.

Pipes shall be fitted together and matched so when laid they will form a sewer with a smooth and uniform invert.

Install gaskets and forms according to manufacturer's recommendations for use of lubricants, cements, and other special installation requirements.

Trench Excavation Requirements shall conform to specifications listed within Sanitary Sewer special provisions.

All trench excavation and backfilling, including backfill material, compaction, and dewatering shall be considered incidental. All work shall be done by open trench excavation.

Record the location, size, length, and number of bends on services on a record drawing. Measure service locations from the closest downstream manhole. Submit sanitary record drawings to the engineer and Utility upon completion of the sanitary portion of the project.

Reconnect services to the existing sewer and adjusting service without damage to the pipe. Proper watertight joints must be made.

#### **D Measurement**

The department will measure Sanitary Sewer Service of each size by length in linear feet from the center of the main to the end of the service complete in place with no deduction for bends or cleanouts, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Sanitary Sewer Service 6-inch PVC	LF

Payment is full compensation for excavation, backfilling, backfill material, compaction, removal and disposal of excess or unsuitable material, labor, tools, equipment, bends, tracer wire, sealing pipes encountered during installation that are determined to be not in use, tracer wire box, adjustments, removal of existing service materials, PVC plugs for future connections, and other items required for a complete installation.

**54. Sanitary Sewer Main 8-inch, Item SPV.0090.02.**

**A Description**

This special provision describes furnishing and installing new sanitary sewer main piping all as shown on the plans and provided by these specifications.

**B Materials**

Pipes shall conform to the following, with all related materials provided from the same manufacturer:

<b>Description</b>	<b>Class or Type</b>	<b>Specification</b>	<b>Joint</b>
PVC Sewer Pipe 8-inch	SDR 35	ASTM D3034	Elastomeric Gasket

**C Construction**

Maintain flow in sanitary sewers on a continuous basis while construction is underway. If required plug sewers with inflatable plug and provide pumps, portable generators, hoses, and related items to maintain flow. During the unloading process, all pipe and accessories shall be inspected by the contractor. Notify the engineer of all material found defective. The engineer shall inspect the material and have the right to reject any materials found unsatisfactory. Promptly remove all rejected material from the job site.

Removal of existing facilities, trench excavation and backfill and restoration shall be according to the provisions of these specifications.

Lay and maintain all pipe to the lines and grades shown on the plans. Set pipe grades with a pipe laser.

Water mains crossing beneath sanitary or storm sewer mains or services shall be laid to provide a minimum separation of 18 inches between the top of the water main and the bottom of the sewer. When water mains pass above a sewer a minimum separation of 6 inches shall be provided.

Separate sewers and manholes at least 8 feet horizontally from any water main.

When connecting to existing sewers, give the City of Osseo 48-hour notice prior to taking a sewer out of service. The contractor shall have approval from the city and engineer prior to taking the sewer out of service. Disruption of service shall be during the time of day when the least inconvenience will be caused to the owner and kept to a minimum amount of time.

No pipe shall be laid in water or when the trench conditions are unsuitable for such work.

Removal and disposal of existing sanitary sewer, regardless of size or pipe material, shall be considered incidental to the new installations. Clay pipe may be crushed in place if remaining pieces are smaller than 3 inches. Keep clay pipe pieces away from new pipe.

Before lowering pipe into the trench and while suspended, the pipe shall be inspected for defects. Any defective, damaged, or unsound pipe shall be rejected and removed from the site.

Installation of pipe shall conform to ASTM D 2321. Adequate manhole water stops must be provided to prevent infiltration into the sewer system. There shall be no mixing of different manufacturer's pipe or fittings on a project.

Remove all foreign matter from the inside of the pipe before lowered into its position in the trench. Keep pipe clean by approved means during and after laying. Provide temporary plug in the end of incomplete piping at the end of day and when work stops.

Pipe laying shall proceed from the lowest end of the grade and bell ends of the pipe shall face upgrade. Provide watertight plugs at end of stubs installed for future connections. Maximum deviation from staked or plan grade shall be no more than 0.30 feet horizontal and grade slope variation of 0.02 percent.

Pipe shall be laid on solid subgrade material shaped to the contour of the pipe. All pipes shall be laid with ends abutting and true to line and grade. Pipe, which has in any way been disturbed or does not conform to said line and grade before final acceptance, shall be removed and re-laid by the contractor at the contractor's expense.

Pipes shall be fitted together and matched so when laid they will form a sewer with a smooth and uniform invert.

Installation shall conform to ASTM D2321. Compact haunching area to specified density required by ASTM D2321.

Install gaskets and forms according to manufacturer's recommendations for use of lubricants, cements, and other special installation requirements.

Maintain sanitary sewer flow at all times during construction. Maintaining sanitary sewer flow shall be considered incidental.

Trench Excavation Requirements:

Alignment and Grade:

Excavate trench to alignment and grade as staked.

Excavate no more than 100 feet in advance of pipe laying operation.

Trench Width at Pipe Zone:

Center trench on pipe alignment.

Minimum Width: Pipe O.D. plus 12 inches.

Maximum Width: Pipe O.D. plus 24 inches (except rock excavation).

Excavated Materials:

Use stable material for backfill.

Waste unstable material as directed.

Do not place materials on sidewalk, driveways, or drainageways.

Drainage:

Provide drainage excavations when required.

Drain trench water into natural channels or storm sewer.

Do not drain trench water into sanitary sewer.

Rock Excavation:

Blasting shall conform to all local and state ordinances.

Submit blasting schedule for approval.

Minimum trench width: 36 inches.

Provide minimum 6-inch vertical clearance between pipe and rock trench bottom.

Provide minimum 12-inch horizontal clearance between pipe and rock trench walls.

Provide pipe foundation material for pipe in rock trenches.

Pipe Foundations:

Engineer to determine stability of the trench bottom.

Stable trench bottom:

Shape trench bottom to conform to bottom half of pipe.

Excavate bell holes to permit proper jointing.

Unstable trench bottom:

Excavate below pipe grade to specified depth.

Refill with specified foundation material in accordance with plan detail and the special provisions for Crushed Rock for Pipe Stabilization.

Contractor shall receive compensation for Crushed Rock for Pipe Stabilization only for bedding pipe not for dewatering or ease of construction. Aggregate volume will be calculated as the pipe diameter plus 2 feet for width multiplied by the pipe length and a maximum depth of 12 inches. Aggregate used to stabilize trench walls, install dewatering equipment, or provide stable foundation outside of the pipe zone shall not be measured. Engineer or Owner to approve locations where compensation shall be measured. Excess Aggregate used because of insufficient dewatering shall not be measured.

Trench Backfill Requirements:

Pipe Zone:

Use native or specified foundation material free of rocks and other unsuitable debris.

Deposit material uniformly on both sides of pipe throughout entire trench width.

Place material in 6-inch lifts and mechanically compact.

**Above Pipe Zone:**

Use native materials free of debris and rock, concrete or clay lumps with a volume greater than 1/3 cubic foot.

Place in uniform lifts no more than 1 foot thick.

Mechanically compact each lift of the upper 3 feet of the trench to a Standard Proctor.

Density of 100 percent.

Mechanically compact each lift under the upper 3 feet of the trench to a Standard Proctor

Density of 95 percent.

Do not backfill unless approved compaction equipment is operating.

**Replacement Backfill:**

Engineer to determine suitability of native material for backfill.

Use replacement backfill in lieu of native materials as directed.

Place according to the above trench backfill requirements for "Above Pipe Zone".

**Excess or Deficiency of Backfill Material:**

Dispose of excess backfill material as directed after all trenches are backfilled.

Provide replacement backfill as required to establish required surface elevation.

**Field Quality Control:**

Density tests on backfill materials will be as directed by the engineer.

Contractor to recompact all areas represented by failed density tests.

Costs for initial test and first retest, and all subsequent tests will be considered incidental.

Costs of subsequent retests to be deducted from contractor's payment.

All trench excavation and backfilling, including backfill material, compaction, and minor dewatering shall be considered incidental. All work shall be done by open trench excavation.

All dewatering of trenches as described in the special provisions for dewatering will be incidental to the construction.

**Deflection Test**

Deflection tests shall be performed on all sanitary sewer pipe. The test shall be conducted after the final backfill has been in place at least 30 days.

No pipe shall exceed a deflection of 5 percent. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95 percent of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. The line will be considered acceptable if mandrel can progress through line without binding. Provide corrective measures for lines not meeting these requirements.

**Infiltration Test**

Manholes shall be water tight with no leakage permitted. Passing air test will be considered acceptable for compliance with infiltration allowances, unless leakage is observed or pipe diameter is greater than 27 inches.

For infiltration test, place 90 degree V-notch weirs in locations directed by the engineer to measure leakage in sewer lines. Allowable leakage rate shall be 100 gallons/day/inch diameter/mile of sewer between any adjacent manholes. Provide corrective measures for any line that exceeds the allowable leakage rate.

**Air Test**

Place inflatable sewer stoppers in manhole at each end of reach to be tested. Connect one end of an air hose to the plug used for the air inlet. Connect the other end of the hose to the portable air control equipment. This equipment consists of valves and pressure gages used to control the rate at which the air

flows to the test section and to monitor the air pressure inside the pipe. Connect an air hose between the compressor (or other source of compressed air) and the control equipment. Add air to the pipe section. Monitor the air pressure so that the pressure inside the pipe does not exceed 5.0 psig.

When pressure reaches 4.0 psig, stop the air supply so that the internal pressure is maintained for 2 minutes. These two minutes allow time for the temperature of the air to come to equilibrium with the pipe walls. During this time, check all of the plugs with soap solution to detect any plug leakage. If plugs are found to leak, bleed off the air, tighten the plugs, and begin again by supply air. After the temperature has been allowed to stabilize for the 2-minute period, the air supply is disconnected, and the pressure is allowed to decrease to 3.5 psig. At the 3.5 psig the stopwatch is started to determine the time required for the pressure to drop to 2.5 psig.

The time shall be equal to or greater than the allowable time as follows:

1 Pipe Diameter (inches)	2 Mini Time (minutes: seconds)	3 Length for Minimum Time (feet)	4 Time for Longer Length (seconds)	Specified Minimum for Length (L) Shown (minutes:seconds)							
				100 feet	150 feet	200 feet	250 feet	300 feet	350 feet	400 feet	450 feet
4	1:53	597	.190 L	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53
6	2:50	398	.427 L	2:50	2:50	2:50	2:50	2:50	2:50	2:51	3:12
8	3:47	298	.760 L	3:47	3:47	3:47	3:47	3:48	4:26	5:04	5:42
10	4:43	239	1.187 L	4:43	4:43	4:43	4:57	5:56	6:55	7:54	8:54
12	5:40	199	1.709 L	5:40	5:40	5:42	7:08	8:33	9:58	11:24	12:50
15	7:05	159	2.671 L	7:05	7:05	8:54	11:08	13:21	15:35	17:48	20:02
18	8:30	133	3.846 L	8:30	9:37	12:49	16:01	19:14	22:26	25:38	28:51
21	9:55	114	5.235 L	9:55	13:05	17:27	21:49	26:11	30:32	34:54	39:16
24	11:20	99	6.837 L	11:24	17:57	22:48	28:30	34:11	39:53	45:35	51:17
27	12:45	88	8.653 L	14:25	21:38	28:51	36:04	43:16	50:30	57:42	64:54
30	14:10	80	10.683 L	17:48	26:43	35:37	44:31	53:25	62:19	71:13	80:07
33	15:35	72	12.926 L	21:33	32:19	43:56	53:52	64:38	75:24	86:10	96:57
36	17:00	66	15.384 L	25:39	38:28	51:17	64:06	76:55	89:44	102:34	115:23
42	19:74	57	20.942 L	34:54	52:21	69:49	87:15	104:42	122:10	139:37	157:04
48	22:67	50	27.352 L	45:35	68:23	91:11	113:58	136:46	159:33	182:21	205:09

The contractor shall receive no additional compensation for tests or corrective work necessary to reduce leakage below the amount allowed by the specifications, correction of excess deflections, or correction of failing air test.

Record the location, size, length, and number of bends on services on a record drawing. Measure service locations from the closest downstream manhole. Submit sanitary record drawings to City of Osseo Utilities upon completion of the sanitary portion of the project.

Reconnect services to the existing sewer and adjusting service without damage to the pipe. Proper watertight joints must be made.

**D Measurement**

The department will measure Sanitary Sewer Main of each size by length in linear feet from center manhole to center of manhole or connection, acceptably completed.

## E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Sanitary Sewer Main 8-inch	LF

Payment is full compensation for backfill material, excavation, compaction, removal and disposal of existing pipe, disposal of excess material, sealing pipes encountered during installation that are determined to be not in use, tracer wire, bypass pumping, testing, BIL project sign, and other items required for a complete installation.

## 55. **Televise Sanitary Sewer Main, Item SPV.0090.03.**

### A Description

This special provision describes televising of newly installed sanitary sewer as a means of verification of proper installation and record keeping.

### B Materials

Provide equipment and materials as necessary to professionally televise and record video and measurements of underground sanitary sewer pipe.

Provide two copies of visual and audio record of inspection on color DVD or digital USB drive format. Video shall display footage counter continuously showing distance from reference point and also and stop motion capability. Audio record shall correspond with video and written log.

Provide two copies of typewritten logs of inspection record on a standard format, corresponding with audio and video record.

Provide high resolution color photographs of items encountered during the televising which show damage or areas of concern, or as requested by owner or engineer.

Television Camera shall be specifically designed and constructed for operations associated with sewer inspection, with adequate quality to accurately reproduce all colors and provide a clear, focused picture of the entire pipe interior for all conditions encountered. Camera shall have articulating feature to rotate view in all directions axial to pipe diameter. Camera shall be operative in 100 percent humidity conditions and have an adjustable mounting in order to center lens in a variety of pipe diameters. The built-in light source positioned to minimize reflective glare. Camera to have adjustable focal distance from 6 inches to infinity and articulating feature to provide for viewing of up to 90 degrees in all directions. Travel within pipe requires variable speed operation propelled by either power winch, hand winch, or self-propelled. Must include footage counter to measure distance traveled.

Television Monitor shall be vehicle mounted for viewing in a weather-protected environment. Minimum Screen Size: 9-inch. Minimum 350-line resolution color picture. Display footage counter superimposed on screen.

Also provide vehicles as required, with 2-way radio/telephone communication equipment. Contractor shall provide power source, flow control, and all cables, recording equipment, cameras, and other items necessary to perform the work.

### C Construction

Any flagging, signing, barricades, detours, or other traffic control necessary to safely conduct televising operations is the responsibility of the contractor. Notify city and engineer with schedule of televising, and expected traffic disruption and duration.

Propel closed-circuit television camera through designated pipe segments to document condition of pipe, joints, and service connections. Maximum televising velocity 30 to 35 feet of pipe per minute. Move camera through entire pipe segment in a downstream direction. Stop camera at all service connections and rotate view to inspect connection wye opening. Operate camera from remote video monitor display. Record camera from remote video monitor display. Record camera output on recordable media for future viewing. Inspect all newly installed pipe segments.

Televising shall include audio record, to include date and time of inspection, operator name, street or surface location of reference manhole, size and type of pipe being inspected, direction of camera. A description of all significant items shall include broken or damaged pipe, points of infiltration, root intrusions, scale and corrosion, service connections, pipe deflections, and other discernable features.



Include distance of each item from the reference manhole and location of each item with respect to pipe axis.

Contractor shall locate and expose all manholes required for access to sewer systems. Clean and flush pipe segments prior to inspection.

When sewage flows in pipe segment to be inspected exceed minimum levels for a complete inspection of the pipe interior, perform flow control by one of the following control methods. Plugging and blocking shall provide plugs which will allow a controlled release of sewage flow. Insert plugs in the upstream manhole of the pipe segment to be inspected. As the inspection is performed, shut off or reduce flows to minimum acceptable level for adequate inspection. Bypass pumping may also be used to eliminate flow in pipe segment to be inspected by inserting solid plugs in upstream manhole. Provide pumping equipment and conduits to transfer sewage flows from upstream side of the plug to a downstream manhole, around the pipe segment during the inspection. If excessive flow is entering pipe segment being inspected from outside source, contractor shall coordinate with source owner to stop or reduce flow to acceptable levels and/or reschedule inspection of pipe segment to when flows are at acceptable levels. Coordination, scheduling, equipment, notifications, monitoring, and any damage occurring from stopping or bypassing sewage flows shall be the responsibility of the contractor.

#### **D Measurement**

The department will measure Televisive Sanitary Sewer by length in linear feet, measured for pipe runs between each manhole being televised, regardless of pipe size, acceptably completed.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	Televisive Sanitary Sewer	LF

Payment is full compensation for traffic control, jetting, cleaning, filming, gathering and distributing required documentation, and items required for a complete documentation.

### **56. Water Service 1-inch, Item SPV.0090.04; Water Service 2-inch, Item SPV.0090.05.**

#### **A Description**

This special provision describes furnishing and installing water service pipe as shown on the plans, as directed the City of Osseo or their engineer in the field, and as provided by these specifications.

#### **B Materials**

Water service pipe shall be ASTM B88 Type K copper with compression fittings or polyethylene tubing meeting AWWA C901, PE3408, DR-9 and blue in color. Where polyethylene tubing is used contractor will be responsible for all tracer wire and conductivity. Provide tracer wire that is rated for direct bury applications, #10 AWG solid copper wire with 30 mil polyethylene jacket. Color shall be blue.

#### **C Construction**

Coordinate with the City of Osseo regarding temporary water service. Above ground temporary water would have to be approved for use by the City of Osseo. Contact the city at least 48 hours in advance to coordinate and schedule any water shut-offs.

Water services shall be one piece with no coupling between corporation stop and curb stop. Provide minimum 1-foot of slack in the pipe to allow for settlement and movement.

Water services shall have 8.0 feet minimum cover or require insulation. Backfill services according to the bid item Water Main.

Disinfect water services according to water main specifications and flush before connection or burying of final stub.

If contaminated material is found in the service location area, either Type K copper or polyethylene water service material shall be installed as directed by city and engineer, depending on type of contamination.

Furnish and install marker, accurately centered and vertical, over end of each lateral installed that is for future use. Marker shall be 4 by 4 lumber. Place marker in backfill so bottom end touches end of lateral

and top of marker is 2-feet above ground level. Depth of lateral, at end, shall be permanently written on marker. Paint marker blue.

Determine horizontal location of each lateral, at point of terminus, by measurement to nearest 0.1-feet, "tied" to minimum of 2, preferably 3, nearby permanent physical features. Note the horizontal location on the as-built plans provided to the City of Osseo.

#### **D Measurement**

The department will measure Water Services for each size by the linear foot in place, acceptably completed. The quantity measured for payment shall be the number of linear feet completed and accepted according to the contract measured along the centerline of the service piping. The length to be paid for shall be measured through the corporation stop and the curb stop.

#### **E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Water Service 1-inch	LF
SPV.0090.05	Water Service 2-inch	LF

Payment is full compensation for furnishing all materials including tubing and fittings; for all end of piping marking; for all excavations; for tracer wire; for removing existing water service; for sheeting and shoring, forming foundations, laying pipe, and making connections to all new or existing facilities, including couplings; for furnishing all bedding material; for backfilling and compaction, sealing pipes encountered during installation that are determined to be not in use, testing of backfill compaction, removing sheeting and shoring, removing existing water service materials, cleanup, restoring the site of the work, and other items required for a complete installation.

- 57. Water Main C900 6-inch, Item SPV.0090.06;  
Water Main C900 8-inch, Item SPV.0090.07;  
Water Main C900 12-inch, Item SPV.0090.08;  
Water Main Horizontal Directional Drilling HDPE 14-inch, Item SPV.0090.09.**

#### **A Description**

This work shall consist of excavating required trenches, furnishing and installing water mains and backfilling the trenches and horizontal directional drilling (HDD) of water mains.

#### **B Material**

General - Water main shall be polyvinyl chloride pipe conforming to AWWA C900, thickness class DR-18, Pressure Class 235. Where necessary for connections, short segments, hydrant leads, or fittings, water main may be ductile iron Class 52. Any ductile iron pipe used shall be paid at the PVC unit price.

HDD pipe fusible shall meet AWWA C906, IPS DR9 – 200 psi water pressure, heat fused joints, NSF Standard No. 14 and No. 61, PPI designation of PE 3408, Cell Classification ASTM D3350 – PE 345444C, ASTM D3350 – Type III Grade PE 34, blue color, and be continuously marked with size, dimensions, manufacturer, cell class, ASTM basis, pipe test category, plant identification, production data, operator number, and resin supplier code.

Pipe adaptors shall be mechanical joint and fully restrained, meet ASTM D3261, and be the same resin type and cell classification as pipe.

Boring equipment shall have high pressure, low volume fluid cutting process capable of dispensing drilling fluid to the surrounding materials as it proceeds, be remotely steerable, provide for electronic monitoring of depth and location, capable of placing pipe to a depth of 16.5 feet with a 1-foot tolerance, capable of a 90-degree turn within a 300-foot radius, provide for mobile spoils removal from entry and exit pits and return areas caused by fracturing, and include alarm system capable of detecting electrical current. The guidance system shall be capable of measuring inclination, roll, and azimuth, have Independent means to ensure accuracy of installation, be capable of accurately producing installation alignment and profile records, have steering equipment that houses a non-magnetic bottom-hole of the lead drill pipe section, provides for in-hole deviation at the front during pilot hole drilling, positions lead section along same alignment as the proposed crossing from entry to exit. The guidance system also shall have separate magnetized pilot work-string from steering guidance probe by means of 2 non-magnetic drill collars

behind the bottom-hole assembly, include remote tool locating device capable of detecting the position of the cutting head within the following tolerances:

Elevation: 1 inch per 5 feet of depth.

Alignment: 2 inches per 5 feet of depth.

Bentonite clay component shall be an off-white to tan powder, have a chemical definition of untreated Wyoming bentonite or hydrous silicate of alumina composed of sodium montmorillonite clay, have a specific gravity of 2.6 to 2.7, a bulk density of 71 pounds per foot uncompacted plus or minus 3 and 74 pounds per foot compacted plus or minus 3, a unit weight of 2.4 pounds per quart, pH of 8.8 (6 percent in water suspension), mineralogical analysis (x-ray diffraction) of the following:

1. Montmorillonite: 85 percent, plus or minus 5.
2. Quartz: 5 percent, plus or minus 1.
3. Feldspars: 5 percent, plus or minus 1.
4. Cristobalite: 2 percent, plus or minus 0.2.
5. Illite: 2 percent, plus or minus 0.2.
6. Calcium and Gypsum: 1 percent, plus or minus 0.05.

Chemical Analysis of the following:

1. SiO<sub>2</sub>: 55.44 percent, plus or minus 5.
2. Al<sub>2</sub>O<sub>3</sub>: 20.14 percent, plus or minus 2.
3. Fe<sub>2</sub>O<sub>3</sub>: 3.67 percent, plus or minus 0.2.
4. CaO: 0.49 percent, plus or minus 0.05.
5. MgO: 2.49 percent, plus or minus 0.2.
6. Na<sub>2</sub>O: 2.76 percent, plus or minus 0.2.
7. K<sub>2</sub>O: 0.6 percent, plus or minus 0.05.
8. Bound Water: 5.5 percent, plus or minus 0.05.
9. Moisture at 220 degrees F: 8 percent, plus or minus 0.5.

Drilling fluid mixture shall be an inert mixture of water and bentonite clay, contractor may add cement or polymer extenders as required, and coordinate with Owner to obtain water supply for on-site mixture.

Submit certification of compliance certifying that the HDPE pipe and fittings meet the requirements listed in this section. Submit references from previous HDD Boring installation projects and all other product data.

Pipe Joints - Joints shall be push-on type with elastomeric gaskets conforming to the requirements of ASTM F477. The wall thickness of the bell section shall conform to ASTM D3139. Provide tracer wire that is rated for direct bury applications, #10 AWG solid copper wire with 30 mil polyethylene jacket. Color shall be blue.

Provide tracer wire for HDPE water main that is rated for direct bury applications, #12 AWG solid, 0.0808-inch diameter, steel core hard drawn extra high strength 1,150-pound average tensile break load, 45 mil high molecular weight-high density polyethylene blue color jacket complying with ASTM D1248 and 30 volt rating.

Restrain all joints within the Restrained Length shown on the table, below, with restrained mechanical fittings consisting of multiple gripping wedges incorporated into a follower gland meeting the applicable requirements of ANSI/AWWA C101/A21.10 and have a working pressure of 350 psi. All mechanical joint restraints shall be manufactured in the United States and include a cast identification number consisting of year, day, plant, and shift, referenced to material traceability records related to strength, chemical and nodularity tests performed on during production.

Pipe Size (In)	<u>Restrained Length (feet)</u>		
	45° Bend	90° Bend	Tee, Hydrant or Dead End
6	11	20	14
8	19	34	24
10	28	51	36
12	39	73	51

## C Construction

Manipulation of existing valves required in order to construct work shall be performed by the City of Osseo unless permission has been given on a case-by-case basis. Contact the City of Osseo at least 48 hours in advance to coordinate and schedule any required valve manipulation.

Removal and disposal of existing water main shall be considered incidental to the work.

Inspect water main for defects before placing in trench. Lay pipe to the required alignment and grade. Locate hydrants, valves, and fittings according to plans. Remove all foreign matter from the inside of the pipe before installation.

Provide trench excavation, foundations, and backfill according to the requirements as described under the item for sanitary sewer.

All trench excavation and backfilling, including backfill material, compaction, and minor dewatering shall be considered incidental.

Provide a minimum of 8 feet of cover over the pipe. Greater depths of cover over pipe may be necessary to clear other utilities or provide for future finished grade above pipe. Laying pipe at greater depths than 8 feet shall be considered incidental.

Construct the pipe under the conflicting sewer, where water pipe is in direct conflict with sewers. Provide a minimum 18-inch space when the water main crosses beneath the sewer. Provide a minimum 6-inch space when the water main crosses above the sewer.

Water Main paralleling sanitary sewers shall be laid at least 8 feet horizontally from a sanitary sewer.

HDD water main initial boring: The entry angle of the pilot hole and the boring process shall maintain a curvature that does not exceed the allowable bending radius of the pipe. Notify engineer prior to making any adjustments in alignment or grade.

HDD water main pipe installation: After initial boring is complete, install a swivel, circulating sub and reamer at the termination pit and pull pipe back to starting pit. Apply drilling fluid as required to maintain borehole stability and reduce frictional drag. Maximum reaming diameter: 1.4 times the pipe diameter. Protect and support pipe above ground to provide free movement and prevent damage from ground debris. Pullback forces shall not exceed the allowable pulling forces of the pipe. Provide sufficient pipe length to extend past termination point for connections to adjacent pipe sections or manholes. Allow installed pipe to stabilize for 24 hours prior to making tie-ins or connections. Install connections and tie-ins as shown on Drawings.

HDD water main Pipe Joining: Heat fusion method. Perform according to manufacturer's instructions.

Install tracer wire along the axis of all HDPE pipe. Excess drilling fluid and spoil will become property of the contractor for transport and disposal. Do not discharge excess fluid and spoils into sewer systems or natural waterways. Remove and dispose of drilling fluid that surfaces through fracturing.

Connecting to existing water main: Only representatives of the owner are permitted to operate valves on existing system. Give the owner at least 48-hour notice when it is necessary to take an existing water main out of service. Disruption of water service shall be during a low usage period or when it is the least inconvenient to the user. Have all proper materials and equipment immediately on hand when a water main is taken out of service for connection.

No pipe shall be laid in water or on unsuitable foundation bedding except by permission of the engineer.

Perform the following test upon completion of the water main construction and prior to any external service connections.

Perform a pressure and leakage test on new water main according to the following test procedure according to AWWA C600:

Test Pressure: 150 psi. Test Duration: 2 hours.

Test with valves open to include all stubs and water main service laterals. Contractor is responsible for removal of air from dead ends by installing taps or corporation stops at locations as approved by engineer and owner. Upon completion of testing, corporation stops shall be removed and plugged or left in place at the direction of engineer and owner.

Gage requirements include: 4-1/2-inch dial size, 0 to 200 psi range, 2 psi gradation, 1/2 percent accuracy

Do not allow pressure to vary more than 5 psi during the test. Do not allow pressure to vary more than 2 psi during the last hour of the test. Maximum length of main to be covered in any one test shall be 1400 feet.

Allowable Leakage: One-half of the volume allowed by AWWA C600 according to the following:

Leakage is determined by the following formula:

$$L = \frac{SD\sqrt{P}}{266,400}$$

L = Allowable Leakage in Gallons Per Hour

S = Length of Pipe Tested in Feet

D = Nominal Diameter of Pipe, in Inches

P = Average Test Pressure During Test, in psi (gauge)

Pressure Test Services: Service pipes may be tested at the time of the foregoing test, if installed, at the contractor's option. However, testing of service pipes may be completed as a separate operation from main testing and, if so, the test pressure shall be 100 psi. Service pipe testing, if done separately, shall be done with the corporation stop open.

Perform Electrical Conductivity Test on Iron Pipe water mains:

Perform a conductivity test within one week after completion of pressure testing of the main on all iron pipe water mains to establish that locating the new main and services may be carried out in the future.

Bacteriological Tests and Disinfection of New Water Mains and Water Services:

All water distribution system or extension to existing system or any valved section of such extension, or replacement, shall be disinfected prior to placing same in service. Disinfection of water main shall be done according to AWWA Standard C651.

Disinfection shall be by tablet or continuous feed method. Hold chlorine in pipe for a minimum period of 24 hours, with an initial dosage of 50 ppm minimum. Residual dosage after hold period shall be 10 ppm. Flush system within 24 hours after disinfection is completed.

City of Osseo shall draw water samples with accommodations made by contractor. Provide 36-hour notice of time when samples are to be taken.

After final flushing, obtain 2 sets of samples taken a minimum of 24 hours apart.

Each sample set shall include one sample for every 1,200 feet of main and one sample at each dead-end. More samples may be required due to staging and installation methods. Any stubs or water main services which will be tapped in order to release air from the system for pressure testing, shall be made available for testing. The City of Osseo will have the option of requiring safe water samples at these taps.

Ensure that 1 sample is obtained from each branch of main. A minimum of two samples are required.

Perform coliform tests on each sample. Two consecutive safe samples are required from each sample location.

Rechlorinate if any sample tests positive for coliform.

## D Measurement

The department will measure Water Main for each size 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.0090.06	Water Main C900 6-Inch	LF
SPV.0090.07	Water Main C900 8-Inch	LF
SPV.0090.08	Water Main C900 10-inch	LF
SPV.0090.09	Water Main Horizontal Directional Drilling HDPE 14-inch	LF

Payment is full compensation for all excavating, backfilling, dewatering, sheeting, shoring, removing existing water main, for furnishing and installing water mains, pipe joints, tracer wire, bedding material, initial backfill, all test procedures, pipe adaptors, observation wells, sealing pipes determined to be not in use during installations, wasted pipe at entry and exit points, abandoned pipe, disinfection, and other items required for a complete installation.

**58. Water Main Wrapped Ductile Iron 12-inch, Item SPV.0090.10.**

**A Description**

This work shall consist of excavating required trenches, furnishing and installing water mains in contaminated soils, and backfilling the trenches.

**B Material**

General - Water main shall be cement-lined ductile iron pipe Class 52 per AWWA C150 and C151. If contaminated material is present in the excavation, the water main shall be encased with polyethylene sheeting that meets AWWA C105, is 8 mil thick, is Class C black, Type I, and Grade E-1, hydrant ports shall be permanently plugged, fluorocarbon gaskets used, and contaminated soil removed and properly disposed of according to Wisconsin Administrative Code, Department of Natural Resources, NR 500 to 520 code requirements and replaced with clean material. Trench dams must be installed in the trench at the boundaries of contamination to prevent migration along the trench. The trench dam shall consist of clay soil or concrete material. Clay material shall consist of 50 percent fines (200 sieve) or more and be approved for use by the engineer in the field. Concrete shall meet the requirements of the Wisconsin Department of Transportation Standard Specifications Section 501.

Pipe Joints - Joints shall be push-on. Provide joint conductivity utilizing conductive gaskets or copper jumpers; minimum 1/16-inch by 1/2-inch wide flat copper strip, or annealed round copper wire conforming to ASTM B152, Type DHP. Nuts and bolts to be silicon bronze. Other conductivity connections by field weld applications.

Restrain all joints within the Restrained Length shown on the table, below, and with materials meeting the requirements of Water Main Fittings item.

Pipe Size (In)	Restrained Length (feet)		
	45° Bend	90° Bend	Tee, Hydrant or Dead End
6	11	20	14
8	19	34	24
10	28	51	36
12	39	73	51

**C Construction**

Manipulation of existing valves required in order to construct work shall be performed by the City of Osseo only. Contact the city at least 48 hours in advance to coordinate and schedule any required valve manipulation.

Removal of existing water main shall be considered incidental to the work.

Inspect water main for defects before placing in trench. Lay pipe to the required alignment and grade. Locate hydrants, valves, and fittings according to plans. Remove all foreign matter from the inside of the pipe before installation.

Provide trench excavation, foundations, and backfill according to the requirements as shown in the construction details. Install trench dams at the transition between contaminated and non-contaminated native material.

All trench excavation and backfilling, including backfill material, compaction, and minor dewatering shall be considered incidental. Excavated material containing contaminants shall be used or disposed of as required.

Provide a minimum of 8 feet of cover over the pipe. Greater depths of cover over pipe may be necessary to clear other utilities or provide for future finished grade above pipe. Laying pipe at greater depths than 8 feet shall be considered incidental.

Construct the pipe under the conflicting sewer, where water pipe is in direct conflict with sewers. Provide a minimum 18-inch space when the water main crosses beneath the sewer. Provide a minimum 6-inch space when the water main crosses above the sewer.

Water Main paralleling sanitary sewers shall be laid at least 8 feet horizontally from a sanitary sewer.

Connecting to existing water main: Only representatives of the owner are permitted to operate valves on existing system. Give the owner at least 48-hour notice when it is necessary to take an existing water main out of service. Disruption of water service shall be during a low usage period or when it is the least

inconvenient to the user. Have all proper materials and equipment immediately on hand when a water main is taken out of service for connection.

No pipe shall be laid in water or on unsuitable foundation bedding except by permission of the engineer.

Perform the following test upon completion of the water main construction and prior to any external service connections.

Perform a pressure and leakage test on new water main according to the following test procedure according to AWWA C600:

Test Pressure: 150 psi. Test Duration: 2 hours.

Test with valves open to include all stubs and DIP service laterals. Contractor is responsible for removal of air from dead ends by installing taps or corporation stops at locations as approved by engineer and owner. Upon completion of testing, corporation stops shall be removed and plugged or left in place at the direction of engineer and owner.

Gage requirements include: 4-1/2-inch dial size, 0 to 200 psi range, 2 psi gradation, 1/2 percent accuracy

Do not allow pressure to vary more than 5 psi during the test. Do not allow pressure to vary more than 2 psi during the last hour of the test. Maximum length of main to be covered in any one test shall be 1400 feet.

Allowable Leakage: One-half of the volume allowed by AWWA C600 according to the following:

Leakage is determined by the following formula:

$$L = \frac{SD\sqrt{P}}{266,400}$$

L = Allowable Leakage in Gallons Per Hour

S = Length of Pipe Tested in Feet

D = Nominal Diameter of Pipe, in Inches

P = Average Test Pressure During Test, in psi (gauge)

Pressure Test Services: Service pipes may be tested at the time of the foregoing test, if installed, at the contractor's option. However, testing of service pipes may be completed as a separate operation from main testing and, if so, the test pressure shall be 100 psi. Service pipe testing, if done separately, shall be done with the corporation stop open.

Perform Electrical Conductivity Test:

Perform a conductivity test within one week after completion of pressure testing of the main on all iron pipe water mains to establish that electrical thawing may be carried out in the future.

Perform test after back-filling is completed and while line is at normal operating pressure. Test Current: 350 amperes DC plus or minus 10 percent. Test Duration: 5 minutes.

Test between hydrants in segments of convenient length.

Furnish DC current source, cable and all required equipment of adequate capacity to accomplish the test. Clamp cables to hydrant flange bolts. Conduct test with hydrant in the open position and caps on. Measure current continuously throughout the test with a DC ammeter hooked on a cable lead. Start test at minimum current level and increase to test level. Drain hydrant and tighten caps after test.

Failure of a segment shall be determined by current measurements that are insufficient, intermittent or unsteady. If failure occurs, isolate and correct defective contact points as indicated by failed tests. Retest failed segments after correction.

Bacteriological Tests and Disinfection of New Ductile Iron Pipe Water Mains and Water Services:

All water distribution system or extension to existing system or any valved section of such extension, or replacement, shall be disinfected prior to placing same in service. Disinfection of water main shall be done according to AWWA Standard C651.

Disinfection shall be by tablet or continuous feed method. Hold chlorine in pipe for a minimum period of 24 hours, with an initial dosage of 50 ppm minimum. Residual dosage after hold period shall be 10 ppm. Flush system within 24 hours after disinfection is completed.

The City of Osseo will oversee water samples with accommodations made by contractor. Provide 36-hour notice of time when samples are to be taken.

After final flushing, obtain 2 sets of samples taken a minimum of 24 hours apart.

Each sample set shall include one sample for every 1,200 feet of main and one sample at each dead-end. Any stubs or DIP services which will be tapped in order to release air from the system for pressure testing, shall be made available for testing. The City of Osseo will have the option of requiring safe water samples at these taps.

Ensure that 1 sample is obtained from each branch of main. A minimum of two samples are required.

Perform coliform tests on each sample. Two consecutive safe samples are required from each sample location.

Rechlorinate if any sample tests positive for coliform.

#### **D Measurement**

The department will measure Water Main for each size by the linear foot, 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.0090.10	Water Main Wrapped Ductile Iron 8-inch	LF

Payment is full compensation for all excavating, backfilling, dewatering, polyethylene encasement, fluorocarbon gaskets, contaminated material removal, trench dams and associated materials, sheeting, shoring, removing existing water main, for furnishing and installing water mains, sampling, pipe joints, tracer wire, bedding material, initial backfill, all test procedures, and other items required to complete the installation.

### **59. Strip Seal Gland Replacement, Item SPV.0090.11.**

#### **A Description**

This special provision describes removing deteriorated strip seal glands at expansion joints and furnishing and installing new strip seal glands as shown on the plans, and as hereinafter provided.

#### **B Materials**

The minimum thickness of the polychloroprene (neoprene) strip seal shall be ¼-inch for non-reinforced elastomeric glands and 1/8-inch for reinforced glands. Furnish the strip seal gland in lengths suitable for a continuous one-piece installation at each individual expansion joint location. Provide preformed polychloroprene strip seals that conform to the requirements of ASTM D3542, and have the following physical properties:

Property Requirements	Value	Test Method
Tensile Strength, min.	2000 psi	ASTM D412
Elongation @ Break, min	250%	ASTM D412
Hardness, Type A, Durometer	60 ± 5 pts.	ASTM D2240
Compression Set, 70 hours @212°F, max.	35%	D395 Method B Modified
Ozone Resistance, after 70 hrs. at 100°F under 20% Strain with 100 pphm ozone	No Cracks	ASTM D1149 Method A
Mass Change in Oil 3 after 70 hr. @212°F	45%	ASTMD471
Mass Change, max.		

Install the elastomeric strip seal gland with tools recommended by the manufacturer, and with a lubricant adhesive conforming to the requirements of ASTM D4070.

The size of the neoprene strip seal is to match existing (4 -inch). The manufacturer and model number shall be obtained from the Fabricated bridge components current approved products list.



Furnish manufacturer's certification for production of polychloroprene represented showing test results for the cured material supplied and certifying that it meets all specified requirements.

Manufacturer's certifications for adhesive shall attest that the materials meet the specification requirements.

**C Construction**

Remove accumulated foreign material from the joint surface prior to removing existing strip seal glands.

After a joint's surface has been cleaned and allowed to dry out, remove the existing strip seal gland. Cut the existing gland down the center and remove/cut-out as much of the existing neoprene between the joint as possible to aid in removing the portions of the neoprene embedded in the steel retainer channels. Remove the remaining portions of neoprene embedded in the steel channels, using steel picks and tire spoons as required. Dispose of all removed waste material according to applicable solid waste disposal regulations.

After the steel channels are empty and free of the existing neoprene, clean the steel channel's interior section that comes in contact with the neoprene extrusions using wire brushes or by sand blasting in order to remove all debris and old adhesive. Use a compressed air wand to remove any abrasive material that has accumulated in the steel channels after blasting. If cleaning is done by blasting, spent abrasive material shall be collected and prevented from falling into the water or onto the land below, and be disposed of according to applicable solid waste disposal regulations. Cleaning of the steel channels shall be done just prior to new gland installation. The joint must be dry during new gland installation, therefore, do not clean the joint if precipitation is imminent.

Install the new elastomeric strip seal glands with tools recommended by the manufacturer, and with a lubricant adhesive conforming to the requirements of ASTM D4070. Adhesive shall arrive to job-site in factory sealed containers and shall have been produced less than one (1) year prior to the installation date.

**D Measurement**

The department will measure Strip Seal Gland Replacement 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.0090.11	Strip Seal Gland Replacement	LF

Payment is full compensation for removing and disposing of existing strip seal glands; cleaning steel retainer channels; and furnishing and installing the new strip seal glands including adhesive.

**60. Concrete Curb & Gutter Cure and Seal Treatment, Item SPV.0090.12.**

**A Description**

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

**B Materials**

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

**C Construction**

Apply the treating material at the rate as specified in the manufacturer's specifications.

**D Measurement**

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

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.12	Concrete Curb & Gutter Cure and Seal Treatment	LF

Payment is full compensation for providing Concrete Curb & Gutter Cure and Seal Treatment.

**61. Concrete Sidewalk Cure and Seal Treatment, Item SPV.0165.01.**

**A Description**

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

**B Materials**

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

**C Construction**

Apply the treating material at the rate as specified in the manufacturer's specifications.

**D Measurement**

The department will measure the Concrete Sidewalk Cure and Seal Treatment by the square foot, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Concrete Sidewalk Cure and Seal Treatment	SF

Payment is full compensation for providing Concrete Sidewalk Cure and Seal Treatment.

**62. Concrete Centerline Repair 30-Inch, Item SPV.0180.01.**

**A Description**

This special provision describes construction of Concrete Centerline Repair 30-Inch according to standard spec 415, standard spec 416, and standard spec 710. QMP for these items shall be combined and covered under standard spec 716, as shown on the plans, and hereinafter provided. The repair work will be the final riding surface.

**B Materials**

*Supplement standard spec 716.2 with the following:*

Concrete mix design shall be the responsibility of the contractor. Provide the concrete mix designs necessary to accommodate the contractor's operations and contractor scheduling according to the traffic provisions and prosecution and progress provisions included in the plan.

Chloride based accelerators shall be allowed in any concrete mixes that are specifically designed to meet opening strength within six hours or less within the time of placement to accommodate lane restrictions as specified in the contract.

QC slump testing is not required for any concrete mixture that has been approved and has at least 700 lbs of cement per cubic yard.

Random 28-day compressive strength cylinders are not required.

Any chemical admixture(s) to be used, other than air-entraining agents or water reducers from the department's approved list, must be approved in advance by the engineer. The water-cement ratio of the concrete mixture shall not exceed 0.40.

**C Construction**

Restrict lane operations as specified in the Traffic Section and the Prosecution and Progress Section. Perform work to cause the least possible inconvenience to traffic. The contractor will be allowed to close one lane in each direction to complete the work.

Prepare the base as specified in standard spec 211 using engineer-approved hand methods. Place the repair to the thickness of the contiguous pavement. In lieu of replacing base that was damaged or removed, the contractor will be allowed to place concrete to fill this area at no additional cost to the department.

Concrete Centerline Repair 30-Inch must attain a minimum compressive strength of 3,000 psi before it can be opened to traffic. The opening strength shall be determined by Maturity Methods, standard spec 502.3.10.1.3.3 or other engineer approved methods. If cylinders are used, the compressive strength shall be measured by testing concrete cylinders cured in the field on top of the slab, under the curing blanket. At least two cylinders shall be tested in determining the attained strength of concrete repairs for the purpose of opening the pavement to traffic. The average of test results for the two cylinders shall be used to determine compliance, except that neither cylinder may be less than 10 percent below the required strength.

If opening is not controlled by maturity methods or cylinders, cores may be substituted.

**D Measurement**

The department will measure Concrete Centerline Repair 30-Inch by the square yard, acceptably completed.

**E Payment**

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Concrete Centerline Repair 30-Inch	SY

Payment is full compensation for removing old pavement and disposing of removed materials; for preparing the base; for providing, curing, and protecting the concrete.

The department will pay separately for the following bid items: Sawing Concrete, Drilled Tie bars, and Drilled Dowel Bars that are anchored into existing pavement.

**63. Crushed Rock for Pipe Stabilization, Item SPV.0195.01.**

**A Description**

Furnish and install a crushed rock in areas required or directed by the engineer to create a stable foundation for pipe installations.

**B Materials**

Furnish material conforming to standard spec 310.2.

**C Construction**

Excavate below pipe grade to specified depth. Refill with specified foundation material in accordance with plan detail and the special provisions for Crushed Rock for Pipe Stabilization. Contractor shall receive compensation for Crushed Rock for Pipe Stabilization only for bedding pipe not for dewatering or ease of construction. Aggregate volume will be calculated as the pipe diameter plus 2 feet for width multiplied by the pipe length and a maximum depth of 12 inches. Aggregate used to stabilize trench walls, install dewatering equipment, or provide stable foundation outside of the pipe zone shall not be measured. Engineer or City of Osseo to approve locations where compensation shall be measured. Excess Aggregate used because of insufficient dewatering shall not be measured.

**D Measurement**

The department will measure Crushed Rock for Pipe Stabilization by the ton, 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.0195.01	Crushed Rock for Pipe Stabilization	TON

Payment is full compensation for all material, labor, tools, equipment, excavation, removal and disposal of existing trench materials, backfilling, compaction, materials required to install rock for pipe stabilization, and other items required to complete the installation.

**64. Sanitary Manhole Excess Depth 4-FT Diameter, Item SPV.0200.01.**

**A Description**

This special provision describes furnishing and installing sanitary manholes in excess of 8 feet in depth as shown on the plans and provided by these specifications.

**B Materials**

The material for excess sanitary manhole depth shall conform to the requirements as listed in the item Sanitary Manhole with Casting.

**C Construction**

Construct Excess Sanitary Sewer Manhole Depth according to requirements as listed in item Sanitary Manhole with Casting.

**D Measurement**

The department will measure Sanitary Manhole Excess Depth by height in vertical feet for all manhole depth and diameters in excess of 8 feet from finished top of casting to invert of the manhole, 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.0200.01	Sanitary Manhole Excess Depth 4-FT Diameter	VF

Payment is full compensation for all material, labor, tools, equipment, excavation, backfilling, compaction, materials required to add height to outside drops on structures, and other items required to complete the installation.

## **ADDITIONAL SPECIAL PROVISION 4**

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

### **Payment to First-Tier Subcontractors**

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

The prime contractor is not allowed to withhold retainage from payments due subcontractors.

### **Payment to Lower-Tier Subcontractors**

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

### **Acceptance and Final Payment**

Within 30 calendar days of receiving the semi-final estimate from the department, submit written certification that subcontractors at all tiers are paid in full for acceptably completed work.

## Additional Special Provision 6 (ASP-6) Modifications to the standard specifications

*Make the following revisions to the standard specifications.*

### 107 Legal Relations and Responsibility to the Public

Add subsection 107.27 effective with the November 2024 letting.

#### 107.27 Drones or Unmanned Aircraft Systems (UAS)

##### 107.27.1 Licensing and Compliance

- (1) Obtain and possess the necessary Federal Aviation Administration (FAA) licenses and certifications to operate drones commercially (<https://www.faa.gov/uas>).
- (2) Comply with all FAA regulations, airspace restrictions, and local laws. Operators of small drones that are less than 55 pounds for work or business must follow all requirements as listed in Title 14, Chapter 1, Subchapter F, Part 107 of the Code of Federal Regulations (14 CFR) and obtain a remote pilot certificate ([https://www.faa.gov/uas/commercial\\_operators](https://www.faa.gov/uas/commercial_operators)).
- (3) Comply with Wisconsin State Statute 942.10. Limit operations to the specific approved purpose and employ reasonable precautions to avoid capturing images of the public except those that are incidental to the project.
- (4) Provide copies of waivers required for specific project conditions to the engineer prior to any flight.

##### 107.27.2 Flight Approval, Safety, and Incident Reporting

- (1) Submit information in 107.27.2(2) to obtain written drone flight approval from the engineer at least 3 business days prior to operating a drone within the right-of-way. Do not operate a drone within the right-of-way unless approved by the engineer.
- (2) Drone flight application for review and approval must include:
  - UAS pilot information and qualifications, images of certification
  - UAS drone information and FAA tail numbers
  - Max/ Min allowable flight parameters (weather)
  - Specifics of flight mission: capture scope
  - Estimated flight duration
  - Pre-flight checklist
  - Site-specific parameters
  - Notification protocols - Federal/Local/Agency/Owner/Responsible in Charge
  - Confirmation and verification of approved operators and hardware
  - Flight plan map diagram (including launch and landing location)
  - FAA-Airspace flight map classification and confirmation with graphics
  - UAS incident management protocol
- (3) If contractor is requesting multiple types of the same flight, a simplified request can be submitted listing weekly flight plan.
- (4) Safety measures must include but are not limited to:
  - Regular training and updates on drone regulations are required and must be provided upon request.
  - Drones must be operated in accordance with safety guidelines, including maintaining a safe distance from people, structures, vehicles, etc.
  - Conduct a pre-flight safety assessment, considering weather conditions, airspace restrictions, and potential hazards.
  - Emergency procedures (e.g., drone malfunction, loss of control) must be documented and followed.
  - All incidents must be reported to the engineer.
- (5) If the drone has an incident during flight, report the following to the engineer:
  - Incident background and details.
  - FAA (14 CFR 107.9) and NTSB (49 CFR 870) notification protocol.
  - Contractor internal notification protocol.

##### 107.27.3 Insurance Requirements

- (1) Maintain drone liability insurance with the following limits.
  1. For drones weighing 10 pounds or less, a liability policy with a minimum limit of \$1,000,000.00 is required.

2. For drones weighing more than 10 pounds and less than or equal to 20 pounds, a liability policy with a minimum limit of \$2,000,000.00 is required.
3. For drones weighing more than 20 pounds, notify engineer and department will determine appropriate liability policy coverage levels based on size, use, location, and other risk factors.

**646 Pavement Markings**

**646.3.2.4 Black Epoxy**

Replace paragraph (1) with the following effective with the November 2024 letting.

- (1) Apply black epoxy in a grooved slot directly after the white marking. Apply epoxy at a wet mil thickness of 20. Apply black aggregate at or exceeding 25 pounds per gallon of epoxy. Do not apply glass beads to black epoxy.

**ERRATA**

**204.3.1.3 Salvaging or Disposal of Materials**

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Dispose of concrete, stone, brick, and other material not designated for salvage as specified for disposing of materials under 203.3.5.

**204.3.2.3 Removing Buildings**

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Buildings removed and materials resulting from building removal become the contractor's property unless the contract specifies otherwise. Dispose of unclaimed and removed material as specified for disposing of materials in 203.3.5.

**335.3.2 Rubblizing**

Replace paragraph (6) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (6) Remove reinforcing steel exposed at the surface by cutting below the surface and disposing of the steel as specified in 203.3.5. Do not remove unexposed reinforcing steel.

**335.3.3 Compacting**

Replace paragraph (2) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (2) Remove loose asphaltic patching material, joint fillers, expansion material, or other similar materials from the compacted surface. Also remove pavement or patches that have a maximum dimension greater than or equal to 6 inches that are either not well seated or projecting more than one inch. Dispose of removed material as specified in 203.3.5.

**526.3.4 Construction, Backfilling, Inspection and Maintenance**

Replace paragraph (3) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (3) Maintain temporary structures and approaches in place until no longer needed. Unless the engineer directs otherwise, completely remove and dispose of as specified in 203.3.5. Contractor-furnished materials remain the contractor's property upon removal.

**602.3.6 Concrete Rumble Strips**

Replace paragraph (5) to correct link from 203.3.4 to 203.3.5 effective with the November 2024 letting.

- (5) At the end of each workday, move equipment and material out of the clear zone and sweep or vacuum the traveled way pavement and shoulder areas. Sweep away or vacuum up milling debris before opening adjacent lanes to traffic. Dispose of waste material as specified in 203.3.5; do not place on the finished shoulder surface.

**604.2 Materials**

Replace paragraph (1) with the following information to remove line and link for crushed aggregate effective with the November 2024 letting. The crushed aggregate gradation information for slope paving is now found in 604.2(3).

- (1) Furnish materials conforming to the following:

Water.....	501.2
Select crushed material.....	312.2
Concrete.....	501
Reinforcement.....	505
Expansion joint filler.....	415.2.3
Asphaltic materials.....	455.2

## ADDITIONAL SPECIAL PROVISION 7

### A. Reporting 1<sup>st</sup> Tier and DBE Payments During Construction

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

### B. Costs for conforming to this special provision are incidental to the contract.

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

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

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



## **ADDITIONAL SPECIAL PROVISION 9**

### **Electronic Certified Payroll or Labor Data Submittal**

- (1) Use the department's Civil Rights Compliance System (CRCS) for projects with a LET date on or before December 2024 and AASHTOWare Project Civil Rights and Labor (AWP CRL) for projects with a LET date on or after January 2025 to electronically submit Certified Payroll Reports for contracts with federal funds and labor data for contracts with state funds only. Details are available online through the department's Highway Construction Contractor Information (HCCI) site on the Labor, Wages, and EEO Information page at:  
<https://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/default.aspx>
  
- (2) Ensure that all tiers of subcontractors, including all trucking firms, either submit their weekly certified payroll reports (contracts with federal funds) or labor data (contracts with state funds only) electronically through CRCS or AWP CRL. These payrolls or labor data are due within seven calendar days following the close of the payroll period. Every firm providing physical labor towards completing the project is a subcontractor under this special provision.
  
- (3) Upon receipt of contract execution, promptly make all affected firms aware of the requirements under this special provision and arrange for them to receive CRCS or AWP CRL training as they are about to begin their submittals. The department will provide training either in a classroom setting at one of our regional offices, via the online AWP Knowledge Base, or by telephone. to schedule CRCS specific training. The AWP Knowledge Base is at: <https://awpkb.dot.wi.gov/>
  
- (4) The department will reject all paper submittals for information required under this special provision. All costs for conforming to this special provision are incidental to the contract.
  
- (5) For firms wishing to export payroll/labor data from their computer system, have their payroll coordinator contact:
  - For CRCS: Paul Ndon at [paul.ndon@dot.wi.gov](mailto:paul.ndon@dot.wi.gov). Information about exporting payroll/labor data. Not every contractor's payroll system can produce export files. For details, see Section 4.8 CPR Auto Submit (Data Mapping) on pages 49-50; 66-71 of the CRCS Payroll Manual at: <https://wisconsin.gov/Documents/doing-bus/civil-rights/labornwage/crcs-payroll-manual.pdf>
  - For AWP CRL: Contact AWP Support at [awpsupport@dot.wi.gov](mailto:awpsupport@dot.wi.gov). Additional information can be found in the AWP Knowledge Base at <https://awpkb.dot.wi.gov/Content/crl/Payrolls-PrimesAndSubs/PayrollXMLFileCreationProcess.htm>

## NON-DISCRIMINATION PROVISIONS

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

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

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

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

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

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

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

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

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

**Pertinent Non-Discrimination Authorities:**

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

## BUY AMERICA PROVISION

Buy America (as documented in [88 FR 57750 \(2 CFR part 184 and 200\)](#) from the Office of Management and Budget: [Federal Register: Guidance for Grants and Agreements](#) ) shall be domestic products and permanently incorporated in this project as classified in the following three categories, and as noted in the Construction and Materials Manual (CMM):

### 1. Iron and Steel

All iron and steel manufacturing and coating processes (from the initial melting stage through the application of coatings) must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America.

The exemption of the iron and steel manufacturing and coating processes Buy America requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project.

### 2. Manufactured Product

All manufactured products (as defined in CMM 228.5) are covered under a previous waiver from 1983 and are currently exempt from Buy America.

### 3. Construction Material

All construction materials (as defined in [88 FR 57750 \(2 CFR part 184 and 200\)](#) and as referenced in CMM 228.5) must comply with Buy America. All manufacturing process of construction materials must occur in the United States.

[88 FR 55817 \(DOT-OST-2022-0124\)](#) allows a limited waiver of Buy America requirements for de minimis costs and small grants.

- The Total value of the non-compliant products is no more than the lesser of \$1,000,000 or 5% of total applicable costs for the project<sup>1</sup>; or
- The total amount of Federal financial assistance applied to the project, through awards or subaward, is below \$500,000<sup>2</sup>

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

<https://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 using the Buy America Exemption Tracking Tool, available at:

<https://wisconsin.gov/hccidocs/contracting-info/buy-america-exemption-tracking-tool.xlsx>

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<sup>1</sup> The de minimis public interest waiver does not apply to iron and steel subject to the requirements of 23 U.S.C. 313 on financial 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).



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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	201.0205 Grubbing	5.000 STA	_____.	_____.
0004	203.0100 Removing Small Pipe Culverts	1.000 EACH	_____.	_____.
0006	203.0211.S Abatement of Asbestos Containing Material (structure) 01. B-61-282	1.000 EACH	_____.	_____.
0008	204.0100 Removing Concrete Pavement	2,089.000 SY	_____.	_____.
0010	204.0110 Removing Asphaltic Surface	1,217.000 SY	_____.	_____.
0012	204.0150 Removing Curb & Gutter	8,199.000 LF	_____.	_____.
0014	204.0155 Removing Concrete Sidewalk	2,030.000 SY	_____.	_____.
0016	204.0210 Removing Manholes	27.000 EACH	_____.	_____.
0018	204.0220 Removing Inlets	30.000 EACH	_____.	_____.
0020	204.0245 Removing Storm Sewer (size) 01. 12-Inch	1,165.000 LF	_____.	_____.
0022	204.0245 Removing Storm Sewer (size) 02. 15-Inch	482.000 LF	_____.	_____.
0024	204.0245 Removing Storm Sewer (size) 03. 18-Inch	561.000 LF	_____.	_____.
0026	204.0245 Removing Storm Sewer (size) 04. 21-Inch	529.000 LF	_____.	_____.
0028	204.0245 Removing Storm Sewer (size) 05. 24-Inch	76.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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	204.0245 Removing Storm Sewer (size) 06. 30-Inch	527.000 LF	_____.	_____.
0032	204.0245 Removing Storm Sewer (size) 07. 36-Inch	1,345.000 LF	_____.	_____.
0034	204.9090.S Removing (item description) 01. Landscaping Retaining Wall	125.000 LF	_____.	_____.
0036	205.0100 Excavation Common	12,915.000 CY	_____.	_____.
0038	205.0501.S Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	625.000 TON	_____.	_____.
0040	211.0201 Prepare Foundation for Concrete Pavement (project) 01. 1535-07-73	1.000 EACH	_____.	_____.
0042	213.0100 Finishing Roadway (project) 01. 1535-07-73	1.000 EACH	_____.	_____.
0044	305.0110 Base Aggregate Dense 3/4-Inch	831.000 TON	_____.	_____.
0046	305.0120 Base Aggregate Dense 1 1/4-Inch	11,161.000 TON	_____.	_____.
0048	415.0085 Concrete Pavement 8 1/2-Inch	25,047.000 SY	_____.	_____.
0050	415.0210 Concrete Pavement Gaps	2.000 EACH	_____.	_____.
0052	415.0410 Concrete Pavement Approach Slab	447.000 SY	_____.	_____.
0054	415.4100 Concrete Pavement Joint Filling	25,463.000 SY	_____.	_____.
0056	416.0610 Drilled Tie Bars	877.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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	416.0620 Drilled Dowel Bars	497.000 EACH	_____.	_____.
0060	416.1710 Concrete Pavement Repair	300.000 SY	_____.	_____.
0062	416.1720 Concrete Pavement Replacement	930.000 SY	_____.	_____.
0064	450.4000 HMA Cold Weather Paving	92.000 TON	_____.	_____.
0066	455.0605 Tack Coat	138.000 GAL	_____.	_____.
0068	460.2000 Incentive Density HMA Pavement	630.000 DOL	1.00000	630.00
0070	460.5243 HMA Pavement 3 LT 58-34 S	207.000 TON	_____.	_____.
0072	460.5244 HMA Pavement 4 LT 58-34 S	138.000 TON	_____.	_____.
0074	460.6244 HMA Pavement 4 MT 58-34 S	639.000 TON	_____.	_____.
0076	465.0120 Asphaltic Surface Driveways and Field Entrances	130.000 TON	_____.	_____.
0078	465.0125 Asphaltic Surface Temporary	110.000 TON	_____.	_____.
0080	502.2000 Compression Joint Sealer Preformed Elastomeric (width) 01. 2-Inch	62.000 LF	_____.	_____.
0082	502.3101 Expansion Device	62.000 LF	_____.	_____.
0084	502.3200 Protective Surface Treatment	344.000 SY	_____.	_____.
0086	502.3210 Pigmented Surface Sealer	3.000 SY	_____.	_____.



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Federal ID(s): N/A, 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	502.4205 Adhesive Anchors No. 5 Bar	61.000 EACH	_____.	_____.
0090	505.0600 Bar Steel Reinforcement HS Coated Structures	2,060.000 LB	_____.	_____.
0092	506.5000 Bearing Assemblies Fixed (structure) 01. B-61-282	13.000 EACH	_____.	_____.
0094	506.7050.S Removing Bearings (structure) 01. B-61-282	13.000 EACH	_____.	_____.
0096	509.0301 Preparation Decks Type 1	2.000 SY	_____.	_____.
0098	509.0302 Preparation Decks Type 2	2.000 SY	_____.	_____.
0100	509.0500 Cleaning Decks	306.000 SY	_____.	_____.
0102	509.1000 Joint Repair	28.000 SY	_____.	_____.
0104	509.1500 Concrete Surface Repair	122.000 SF	_____.	_____.
0106	509.2000 Full-Depth Deck Repair	3.000 SY	_____.	_____.
0108	509.2500 Concrete Masonry Overlay Decks	46.000 CY	_____.	_____.
0110	513.9006.S Removing and Resetting Tubular Railing (structure) 01. B-61-282	1.000 EACH	_____.	_____.
0112	517.3001.S Structure Overcoating Cleaning and Priming (structure) 01. B-61-282	1.000 EACH	_____.	_____.
0114	517.4001.S Containment and Collection of Waste Materials (structure) 01. B-61-282	1.000 EACH	_____.	_____.





Proposal Schedule of Items

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Federal ID(s): N/A, 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
0116	517.6001.S Portable Decontamination Facility	1.000 EACH	_____.	_____.
0118	520.1024 Apron Endwalls for Culvert Pipe 24-Inch	1.000 EACH	_____.	_____.
0120	520.8000 Concrete Collars for Pipe	6.000 EACH	_____.	_____.
0122	522.0424 Culvert Pipe Reinforced Concrete Class IV 24-Inch	50.000 LF	_____.	_____.
0124	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	2.000 EACH	_____.	_____.
0126	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	1.000 EACH	_____.	_____.
0128	601.0150 Concrete Curb Integral Type D	7,593.000 LF	_____.	_____.
0130	601.0409 Concrete Curb & Gutter 30-Inch Type A	194.000 LF	_____.	_____.
0132	601.0411 Concrete Curb & Gutter 30-Inch Type D	686.000 LF	_____.	_____.
0134	602.0405 Concrete Sidewalk 4-Inch	20,504.000 SF	_____.	_____.
0136	602.0415 Concrete Sidewalk 6-Inch	270.000 SF	_____.	_____.
0138	602.0505 Curb Ramp Detectable Warning Field Yellow	370.000 SF	_____.	_____.
0140	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	181.000 SF	_____.	_____.
0142	602.0810 Concrete Driveway 6-Inch	913.000 SY	_____.	_____.
0144	602.2400 Concrete Safety Islands	260.000 SF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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
0146	606.0300 Riprap Heavy	30.000 CY	_____.	_____.
0148	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	844.000 LF	_____.	_____.
0150	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	42.000 LF	_____.	_____.
0152	608.2334 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	526.000 LF	_____.	_____.
0154	608.3012 Storm Sewer Pipe Class III-A 12-Inch	969.000 LF	_____.	_____.
0156	608.3015 Storm Sewer Pipe Class III-A 15-Inch	270.000 LF	_____.	_____.
0158	608.3018 Storm Sewer Pipe Class III-A 18-Inch	125.000 LF	_____.	_____.
0160	608.3021 Storm Sewer Pipe Class III-A 21-Inch	70.000 LF	_____.	_____.
0162	608.3024 Storm Sewer Pipe Class III-A 24-Inch	862.000 LF	_____.	_____.
0164	608.3030 Storm Sewer Pipe Class III-A 30-Inch	555.000 LF	_____.	_____.
0166	608.3036 Storm Sewer Pipe Class III-A 36-Inch	528.000 LF	_____.	_____.
0168	611.0535 Manhole Covers Type J-Special	16.000 EACH	_____.	_____.
0170	611.0624 Inlet Covers Type H	23.000 EACH	_____.	_____.
0172	611.0639 Inlet Covers Type H-S	11.000 EACH	_____.	_____.
0174	611.0642 Inlet Covers Type MS	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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
0176	611.2004 Manholes 4-FT Diameter	4.000 EACH	_____.	_____.
0178	611.2005 Manholes 5-FT Diameter	5.000 EACH	_____.	_____.
0180	611.2006 Manholes 6-FT Diameter	5.000 EACH	_____.	_____.
0182	611.2008 Manholes 8-FT Diameter	2.000 EACH	_____.	_____.
0184	611.3004 Inlets 4-FT Diameter	4.000 EACH	_____.	_____.
0186	611.3230 Inlets 2x3-FT	31.000 EACH	_____.	_____.
0188	611.3902 Inlets Median 2 Grate	1.000 EACH	_____.	_____.
0190	611.8120.S Cover Plates Temporary	51.000 EACH	_____.	_____.
0192	612.0902.S Insulation Board Polystyrene (inch) 01. 2-Inch	500.000 SY	_____.	_____.
0194	614.0800 Crash Cushions Permanent	1.000 EACH	_____.	_____.
0196	614.2500 MGS Thrie Beam Transition	39.400 LF	_____.	_____.
0198	614.2610 MGS Guardrail Terminal EAT	1.000 EACH	_____.	_____.
0200	618.0100 Maintenance and Repair of Haul Roads (project) 01. 1535-07-73	1.000 EACH	_____.	_____.
0202	619.1000 Mobilization	1.000 EACH	_____.	_____.
0204	620.0300 Concrete Median Sloped Nose	31.000 SF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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
0206	624.0100 Water	118.000 MGAL	_____.	_____.
0208	625.0500 Salvaged Topsoil	6,386.000 SY	_____.	_____.
0210	628.1504 Silt Fence	1,510.000 LF	_____.	_____.
0212	628.1520 Silt Fence Maintenance	1,510.000 LF	_____.	_____.
0214	628.1905 Mobilizations Erosion Control	10.000 EACH	_____.	_____.
0216	628.1910 Mobilizations Emergency Erosion Control	5.000 EACH	_____.	_____.
0218	628.2006 Erosion Mat Urban Class I Type A	5,884.000 SY	_____.	_____.
0220	628.2008 Erosion Mat Urban Class I Type B	502.000 SY	_____.	_____.
0222	628.7005 Inlet Protection Type A	40.000 EACH	_____.	_____.
0224	628.7015 Inlet Protection Type C	42.000 EACH	_____.	_____.
0226	628.7555 Culvert Pipe Checks	3.000 EACH	_____.	_____.
0228	629.0210 Fertilizer Type B	5.200 CWT	_____.	_____.
0230	630.0140 Seeding Mixture No. 40	300.000 LB	_____.	_____.
0232	630.0200 Seeding Temporary	190.000 LB	_____.	_____.
0234	630.0500 Seed Water	145.000 MGAL	_____.	_____.
0236	633.5200 Markers Culvert End	5.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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
0238	634.0614 Posts Wood 4x6-Inch X 14-FT	28.000 EACH	_____.	_____.
0240	637.2210 Signs Type II Reflective H	164.750 SF	_____.	_____.
0242	637.2230 Signs Type II Reflective F	35.000 SF	_____.	_____.
0244	638.2102 Moving Signs Type II	107.000 EACH	_____.	_____.
0246	638.3000 Removing Small Sign Supports	1.000 EACH	_____.	_____.
0248	638.4000 Moving Small Sign Supports	77.000 EACH	_____.	_____.
0250	642.5001 Field Office Type B	1.000 EACH	_____.	_____.
0252	643.0300 Traffic Control Drums	19,050.000 DAY	_____.	_____.
0254	643.0410 Traffic Control Barricades Type II	3,800.000 DAY	_____.	_____.
0256	643.0420 Traffic Control Barricades Type III	18,835.000 DAY	_____.	_____.
0258	643.0705 Traffic Control Warning Lights Type A	37,670.000 DAY	_____.	_____.
0260	643.0715 Traffic Control Warning Lights Type C	1,222.000 DAY	_____.	_____.
0262	643.0800 Traffic Control Arrow Boards	141.000 DAY	_____.	_____.
0264	643.0900 Traffic Control Signs	111,367.000 DAY	_____.	_____.
0266	643.0910 Traffic Control Covering Signs Type I	1.000 EACH	_____.	_____.
0268	643.0920 Traffic Control Covering Signs Type II	56.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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	643.1000 Traffic Control Signs Fixed Message	18.000 SF	_____.	_____.
0272	643.1050 Traffic Control Signs PCMS	14.000 DAY	_____.	_____.
0274	643.3350 Temporary Marking Crosswalk Removable Tape 6-inch	1,270.000 LF	_____.	_____.
0276	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0278	644.1440 Temporary Pedestrian Surface Matting	11,474.000 SF	_____.	_____.
0280	644.1601 Temporary Pedestrian Curb Ramp	2,096.000 DAY	_____.	_____.
0282	644.1605 Temporary Pedestrian Detectable Warning Field	300.000 SF	_____.	_____.
0284	644.1810 Temporary Pedestrian Barricade	5,672.000 LF	_____.	_____.
0286	645.0120 Geotextile Type HR	23.000 SY	_____.	_____.
0288	646.1020 Marking Line Epoxy 4-Inch	2,538.000 LF	_____.	_____.
0290	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch	17,998.000 LF	_____.	_____.
0292	646.3020 Marking Line Epoxy 8-Inch	357.000 LF	_____.	_____.
0294	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch	263.000 LF	_____.	_____.
0296	646.5020 Marking Arrow Epoxy	55.000 EACH	_____.	_____.
0298	646.5220 Marking Symbol Epoxy	27.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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	646.6120 Marking Stop Line Epoxy 18-Inch	27.000 LF	_____.	_____.
0302	646.6466 Cold Weather Marking Epoxy 6-Inch	249.000 LF	_____.	_____.
0304	646.7120 Marking Diagonal Epoxy 12-Inch	120.000 LF	_____.	_____.
0306	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	963.000 LF	_____.	_____.
0308	646.8220 Marking Island Nose Epoxy	2.000 EACH	_____.	_____.
0310	646.9002 Marking Removal Line 6-Inch	488.000 LF	_____.	_____.
0312	650.4000 Construction Staking Storm Sewer	51.000 EACH	_____.	_____.
0314	650.4500 Construction Staking Subgrade	5,109.000 LF	_____.	_____.
0316	650.5000 Construction Staking Base	665.000 LF	_____.	_____.
0318	650.5500 Construction Staking Curb Gutter and Curb & Gutter	709.000 LF	_____.	_____.
0320	650.6000 Construction Staking Pipe Culverts	1.000 EACH	_____.	_____.
0322	650.7000 Construction Staking Concrete Pavement	4,444.000 LF	_____.	_____.
0324	650.8501 Construction Staking Electrical Installations (project) 01. 1535-07-73	1.000 EACH	_____.	_____.
0326	650.9000 Construction Staking Curb Ramps	43.000 EACH	_____.	_____.
0328	650.9500 Construction Staking Sidewalk (project) 01. 1535-07-73	1.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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	650.9911 Construction Staking Supplemental Control (project) 01. 1535-07-73	1.000 EACH	_____.	_____.
0332	650.9920 Construction Staking Slope Stakes	5,109.000 LF	_____.	_____.
0334	653.0900 Adjusting Pull Boxes	1.000 EACH	_____.	_____.
0336	654.0101 Concrete Bases Type 1	4.000 EACH	_____.	_____.
0338	657.0100 Pedestal Bases	4.000 EACH	_____.	_____.
0340	657.0420 Traffic Signal Standards Aluminum 13-FT	3.000 EACH	_____.	_____.
0342	657.0425 Traffic Signal Standards Aluminum 15-FT	1.000 EACH	_____.	_____.
0344	658.0500 Pedestrian Push Buttons	2.000 EACH	_____.	_____.
0346	690.0150 Sawing Asphalt	2,487.000 LF	_____.	_____.
0348	690.0250 Sawing Concrete	2,497.000 LF	_____.	_____.
0350	715.0720 Incentive Compressive Strength Concrete Pavement	7,477.000 DOL	1.00000	7,477.00
0352	740.0440 Incentive IRI Ride	1,430.000 DOL	1.00000	1,430.00
0354	999.2000.S Installing and Maintaining Bird Deterrent System (station) 01. 14+23	1.000 EACH	_____.	_____.
0356	SPV.0060 Special 01. Sanitary Sewer Manhole w/Casting 4-FT Diameter	14.000 EACH	_____.	_____.
0358	SPV.0060 Special 02. Connect to Existing Sanitary Sewer Main	10.000 EACH	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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
0360	SPV.0060 Special 03. Connect to Existing Sanitary Sewer Service	47.000 EACH	_____.	_____.
0362	SPV.0060 Special 04. Sanitary Sewer Wye, 8-inch x 6-inch	49.000 EACH	_____.	_____.
0364	SPV.0060 Special 05. Sanitary Sewer Saddle, 8-inch x 6-inch	2.000 EACH	_____.	_____.
0366	SPV.0060 Special 06. Exploratory Excavation	15.000 EACH	_____.	_____.
0368	SPV.0060 Special 07. Remove Existing Hydrant and Lead	8.000 EACH	_____.	_____.
0370	SPV.0060 Special 08. Remove Existing Gate Valve	19.000 EACH	_____.	_____.
0372	SPV.0060 Special 09. Connect to Existing Water Main	11.000 EACH	_____.	_____.
0374	SPV.0060 Special 10. Lower Water Main	6.000 EACH	_____.	_____.
0376	SPV.0060 Special 11. Gate Valve and Box 6-inch	15.000 EACH	_____.	_____.
0378	SPV.0060 Special 12. Gate Valve and Box 8-inch	15.000 EACH	_____.	_____.
0380	SPV.0060 Special 13. Gate Valve and Box 12-inch	8.000 EACH	_____.	_____.
0382	SPV.0060 Special 14. Hydrant 8.5-FT Bury Depth	11.000 EACH	_____.	_____.
0384	SPV.0060 Special 15. Connect to Existing Water Service	38.000 EACH	_____.	_____.
0386	SPV.0060 Special 16. Corporation Stop 1-inch	37.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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
0388	SPV.0060 Special 17. Corporation Stop 2-inch	2.000 EACH	_____.	_____.
0390	SPV.0060 Special 18. Curb Stop & Box 1-inch	37.000 EACH	_____.	_____.
0392	SPV.0060 Special 19. Curb Stop & Box 2-inch	2.000 EACH	_____.	_____.
0394	SPV.0060 Special 20. Adjust Existing Gate Valve Box	2.000 EACH	_____.	_____.
0396	SPV.0060 Special 21. Maintain Water Service During Construction	1.000 EACH	_____.	_____.
0398	SPV.0060 Special 22. Water Valve Manhole w/Casting 6-FT Diameter	1.000 EACH	_____.	_____.
0400	SPV.0060 Special 23. Bollard	3.000 EACH	_____.	_____.
0402	SPV.0060 Special 24. Rectangular Rapid Flashing Beacon (RRFB) System	1.000 EACH	_____.	_____.
0404	SPV.0060 Special 25. Inlet Covers Type H-D	1.000 EACH	_____.	_____.
0406	SPV.0060 Special 26. Adjusting Sanitary Manhole Covers	1.000 EACH	_____.	_____.
0408	SPV.0060 Special 27. Solar Powered Flashing Beacon - 12" LED System	1.000 EACH	_____.	_____.
0410	SPV.0085 Special 01. Water Main Fittings	3,751.000 LB	_____.	_____.
0412	SPV.0090 Special 01. Sanitary Sewer Service PVC 6-inch	1,649.000 LF	_____.	_____.
0414	SPV.0090 Special 02. Sanitary Sewer Main 8-inch	3,030.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20250211047 Project(s): 1535-07-73, 1535-07-74

Federal ID(s): N/A, 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
0416	SPV.0090 Special 03. Televiser Sanitary Sewer Main	3,030.000 LF	_____	_____
0418	SPV.0090 Special 04. Water Service 1-inch	1,090.000 LF	_____	_____
0420	SPV.0090 Special 05. Water Service 2-inch	88.000 LF	_____	_____
0422	SPV.0090 Special 06. Water Main C900 6-inch	398.000 LF	_____	_____
0424	SPV.0090 Special 07. Water Main C900 8-inch	2,720.000 LF	_____	_____
0426	SPV.0090 Special 08. Water Main C900 12-inch	795.000 LF	_____	_____
0428	SPV.0090 Special 09. Water Main Horizontal Directional Drilling HDPE 14-inch	170.000 LF	_____	_____
0430	SPV.0090 Special 10. Water Main Wrapped Ductile Iron 12-inch	100.000 LF	_____	_____
0432	SPV.0090 Special 11. Strip Seal Gland Replacement	220.000 LF	_____	_____
0434	SPV.0090 Special 12. Concrete Curb & Gutter Cure and Seal Treatment	8,473.000 LF	_____	_____
0436	SPV.0165 Special 01. Concrete Sidewalk Cure and Seal Treatment	20,774.000 SF	_____	_____
0438	SPV.0180 Special 01. Concrete Centerline Repair 30-Inch	115.000 SY	_____	_____
0440	SPV.0195 Special 01. Crushed Rock for Pipe Stabilization	200.000 TON	_____	_____
0442	SPV.0200 Special 01. Sanitary Manhole Excess Depth 4-FT Diameter	24.300 VF	_____	_____



**Proposal Schedule of Items**

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**Proposal ID:** 20250211047    **Project(s):** 1535-07-73, 1535-07-74

**Federal ID(s):** N/A, N/A

**Section:** 0001

**Total:** \_\_\_\_\_.

**Total Bid:** \_\_\_\_\_.

**PLEASE ATTACH ADDENDA HERE**