

HIGHWAY WORK PROPOSAL

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

Proposal Number: **013**

<u>COUNTY</u>	<u>STATE PROJECT</u>	<u>FEDERAL</u>	<u>PROJECT DESCRIPTION</u>	<u>HIGHWAY</u>
Shawano	9220-04-72	N/A	Bonduel - Cecil; Express Way To Mutzy Lane	STH 117
Shawano	9220-04-82	N/A	Bonduel - Cecil; Express Way To Mutzy Lane	STH 117

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

Proposal Guaranty Required: \$75,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: September 12, 2023 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code <h2 style="text-align: center;">SAMPLE NOT FOR BIDDING PURPOSES</h2> This contract is exempt from federal oversight.
Contract Completion Time 65 Working Days	
Assigned Disadvantaged Business Enterprise Goal 0%	

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

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

Subscribed and sworn to before me this date _____

 (Signature, Notary Public, State of Wisconsin)

 (Bidder Signature)

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

 (Print or Type Bidder Name)

 (Date Commission Expires)

 (Bidder Title)

Notary Seal

Type of Work: Excavation, Base, HMA Pavement, Retaining Walls, Culvert Pipe, Curb and Gutter, Sidewalk, Storm Sewer, Signs, Pavement Marking, Traffic Signals, Water Main, Sanitary Main.	For Department Use Only
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 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 January 13, 2023

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 9220-04-72, Bonduel – Cecil, Express Way to Mutzy Lane, STH 117, Shawano County, Wisconsin; and Project 9220-04-82, Bonduel – Cecil, Express Way to Mutzy Lane, STH 117, Shawano 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, 2023 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 (20230113)

2. Scope of Work.

The work under this contract shall consist of pavement removal, asphalt milling, concrete sidewalk, concrete curb and gutter, HMA pavement, base aggregate dense, water main, pavement marking, 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 2024 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

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

The Notice to Proceed will be issued such that work shall start no later than March 1, 2024, unless otherwise approved by the engineer.

Northern Long-eared Bat (*Myotis septentrionalis*)

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

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

Direct temporary lighting, if used, away from wooded areas during the bat active season: April 1 to October 31, both dates inclusive.

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

Milled and Overlay

Do not allow a milled surface open to through traffic to remain in place longer than 96 hours or during periods included in the holidays and special events restrictions unless adverse weather prevents placement of the asphalt layer.

Provide an even cross-sectional profile of each lane prior to reopening to traffic. An uneven profile within each lane is not allowed except within a flagging operation.

Construction Staging

Stage 1

Remove existing pavement structure, place base materials, pave asphalt, place shoulder material, install concrete curb and gutter, regrade rural ditch and install landscaping items of STH 117 from Express Way to South Street.

Stage 2

Stage 2A

Remove existing pavement structure, place base materials, pave asphalt, install concrete curb and gutter, install concrete sidewalk, reconstruct storm sewer structures and install landscaping items of STH 117 from South Street to CTH BE. Construct all roadway and water main work within project limits except existing curb and gutter and sidewalk on west side of STH 117 from Grant Street to East Mill Street and existing sidewalk on east of STH 117 from East Mill Street to CTH BE. Existing sidewalk to remain in these locations for pedestrian access.

Construct southwest and southeast quadrant of CTH BE intersection. Construction includes traffic signals and loops.

Stage 2B

Remove existing pavement structure, place base materials, pave asphalt, install concrete curb and gutter, install concrete sidewalk, reconstruct storm sewer structures and install landscaping items of STH 117 from South Street to CTH BE. Construct all roadway items not completed in Stage 2A within project limits.

Construct northeast quadrant of CTH BE intersection. Construction includes traffic signals and loops.

Stage 2C

Construct northwest quadrant of CTH BE intersection. Construction includes traffic signals and loops.

Stage 2D

Pedestrian curb ramp replacements from CTH BE to Cedar Street. Construct all east pedestrian curb ramps within project limits.

Stage 2E

Pedestrian curb ramp replacements from CTH BE to Cedar Street. Construct all west pedestrian curb ramps within project limits.

Stage 3

Mill and resurface the asphaltic pavement on STH 117 from CTH BE to Mutzy Lane.

4. Traffic.

Stage 1 Work (Express Way to South Street)

Close STH 117 from Express Way to South Street to through traffic. Detour STH 117 through traffic using STH 29, STH 55 and STH 22.

Maintain access from STH 117 to South Street at all times.

Stage 2 Work (South Street to CTH BE)

Close STH 117 from South Street to CTH BE to through traffic. Detour STH 117 through traffic using STH 29, STH 55 and STH 22.

Traffic signals at CTH BE / STH 117 intersection to be disabled.

Maintain temporary access to STH 117 on one side street at all times (Grant or Mill Street).

Stage 2A

Maintain access for pedestrians on the existing west sidewalk from Grant Street to East Mill Street and existing east sidewalk from East Mill Street to CTH BE. Install a temporary pedestrian crossing at East Mill Street.

Close the southwest and southeast quadrant of CTH BE intersection. Maintain access to pedestrians on CTH BE and STH 117 through a pedestrian detour. Install a temporary pedestrian crossing at Church Street/CTH BE intersection.

Stage 2B

Maintain access for pedestrians on the finished west sidewalk from South Street to Grant Street, finished east sidewalk from Grant Street to East Mill Street, and existing east sidewalk from East Mill Street to CTH BE. Install a temporary pedestrian surface and crossing at Grant Street.

Close the northeast quadrant of CTH BE intersection. Maintain access to pedestrians on CTH BE and STH 117 through a pedestrian detour. Install a temporary pedestrian crossing at Church Street/CTH BE intersection.

Stage 2C

Close the northwest quadrant of CTH BE intersection. Maintain access for pedestrians on CTH BE and STH 117 through a pedestrian detour. Install a temporary pedestrian crossing at Church Street/CTH BE intersection.

Stage 2D

Close pedestrian curb ramps on east side of STH 117 from CTH BE to Cedar Street. Maintain access for pedestrians on STH 117 through temporary pedestrian crossings at Cedar Street, Park Street, and State Street.

Stage 2E

Close pedestrian curb ramps on west side of STH 117 from CTH BE to Cedar Street. Maintain access for pedestrians on STH 117 through temporary pedestrian crossings at Cedar Street, Park Street, and State Street. Maintain access to pedestrians on State Street through a pedestrian detour.

Stage 3 Work (CTH BE to Mutzy Lane)

Maintain traffic utilizing a flagging operation during construction hours.

New traffic signals at CTH BE / STH 117 intersection to be reactivated.

Maintain access to businesses and residences at all times. Provide notice to residents of full closure at least 3 working days prior to closure, and coordinate with the Village of Bonduel on appropriate on-street parking locations.

Maintain temporary pedestrian access at the beginning and end construction limits during construction. Provide a 4-foot wide minimum temporary sidewalk or equivalent, temporary pedestrian curb ramps, and pedestrian barricade, if needed. Engineer on site can approve eliminating temporary pedestrian curb ramps if an alternative path is deemed reasonable in the field.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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

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

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 STH 117 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 24, 2024 to 6:00 AM Tuesday, May 28, 2024 for Memorial Day;
- From noon Wednesday, July 3, 2024 to 6:00 AM Monday, July 8, 2024 for Independence Day;
- From noon Friday, August 30, 2024 to 6:00 AM Tuesday, September 3, 2024 for Labor Day.

Detour to be left in place until the completion of Stage 1 and 2. Maintain the detour route during holiday restrictions.

stp-107-005 (20210113)

6. Utilities.

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

stp-107-065 (20080501)

All utilities within the construction limits of Project ID 9220-04-82 were coordinated under Project ID 9220-04-72.

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 not less than three working days before the site will be ready for the utility owner to begin its work.

All stations and offsets are in relation to STH 117 unless otherwise noted

Astrea (Communication Line)

Astrea has overhead telecommunication facilities in conjunction with We Energies electric facilities in the following locations:

Station 981+14 – Station 994+25 / West right-of-way line

Station 994+25 – Station 1018+00 / East grass terrace or right-of-way line

Station 1026+60 – Station 1029+00 / East grass terrace

Station 1029+00 – Station 1039+00 / West grass terrace

There are no anticipated conflicts with the communication facilities along the mainline.

Bonduel Water Department (Water)

Bonduel Water Department has water main facilities under the roadway throughout the project limits. Water main and service work is included under this contract.

Bonduel Sanitary Department (Sewer)

Bonduel Sanitary Department has sanitary facilities under the roadway throughout the project limits. Sanitary sewer manhole adjustment work is included under this contract.

TDS Telecom (Communication Line)

TDS Telecom has underground fiber optic facilities along the east side of STH 117 from the beginning of the project to CTH BE. There are no anticipated conflicts with the communication facilities along the mainline.

We Energies (Electricity)

We Energies has overhead electric facilities in the following locations:

- Station 981+14 – Station 994+25 / West right-of-way line
- Station 994+25 – Station 1018+00 / East grass terrace or right-of-way line
- Station 1026+60 – Station 1029+00 / East grass terrace
- Station 1029+00 – Station 1039+00 / West grass terrace

We Energies plans to relocate the following power poles to be out of conflict prior to construction:

- Station 996+50 LT
- Station 1000+00 RT
- Station 1001+75 LT
- Station 1005+80 RT
- Station 1006+40 RT
- Station 1019+30 RT (Guy wire / anchor only)
- Station 1029+05 RT (Guy wire / anchor only)

Contact the Line Crew Leader at phone number: 920.380.3252 to request a pole hold for construction.

We Energies (Gas/Petroleum)

We Energies has underground gas facilities from Station 984+00 to Station 1011+00 along the east side of the corridor in the grass terrace or ditch area.

We Energies has underground gas facility crossings in the following locations:

- Station 982+40
- Station 984+05
- Station 992+95
- Station 995+15

- Station 997+30
- Station 997+55
- Station 998+60
- Station 1004+05
- Station 1004+50
- Station 1007+50

There are no anticipated conflicts with the gas facilities along the mainline.

7. **Notice to Contractor – General Provisions for Village of Bonduel Water Main Construction.**

Contact Information:

Director of Municipal Operations
 Jesse Rankin, P.E.
 Phone: (715) 758-8779
 E-mail: J.Rankin@villageofbonduel.com

Utility Standard Specifications

Perform work according to these provisions, the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, the Village of Bonduel Municipal Code (hereinafter referred to as Village Municipal Code), the Standard Specifications for Sewer and Water Construction in Wisconsin (SWS), and the Comprehensive Village Water Plan. In the event of a conflict the Wisconsin Department of Transportation Standard Specifications will take precedence.

Work Sequence

Contact the identified person above 10 working days prior to starting water main work and provide a schedule of operations.

Construct water main and water service laterals in stages according to the traffic control plans and in proper coordination with construction activities adjacent to the water main.

As construction staging and sequence allows, disinfect the new water mains. Contractor is responsible for flushing and testing all newly installed water mains. Coordinate as necessary with village staff for these operations. After the water main has passed bacteriological and pressure testing, install replacement water services and make connections to the existing water system. Water main installation will consist of strategic abandonment of the existing water main. Abandon existing water main only after the new water main has passed all required testing, new main has been properly brought online into the system and all service laterals, except those called to be abandoned, have been relocated to the new main.

Keep valves at connection points between the new water main and the existing water main closed until the new water main has passed all testing. Where new valves need to be opened to fill the new water main for testing and flushing, sequencing shall be so arranged to preclude backflow of any water from the new water main to the existing water main.

Following the installation of replacement water services and the connection of replacement water main to the existing water main at locations noted on the plans, the existing water main shall be cut off; drained; open ends plugged or bulk-headed with concrete; and the pipe abandoned in place. This work is considered incidental to the new water main installation.

Service Disruption Notification

Water service interruptions to individual users shall be limited to the time required to make temporary and final water service connections and shall be coordinated with the users. Water service interruptions not to exceed 8-hours. Notify the village staff and all affected water users 48 hours in advance of service interruptions (see contact information above). Existing valves will be operated by Village of Bonduel staff only unless prior arrangements have been made with village staff.

Hydrants

Determine the location of the curb line, sidewalk limits, and existing utilities in the area prior to hydrant installation to assure the proper location of the hydrant relative to the curb line. This work is considered incidental to the new water main installation.

Where needed, use offsets and/or bends on the hydrant lead such that the hydrant is installed at a minimum bury depth of 6 feet and required clearances with storm sewer, sanitary sewer and other pipes are maintained. In no case may a hydrant be set at a depth greater than 9 feet from grade. Assess the need for hydrant extensions. Hydrant leads must have a positive slope from the mainline to the hydrant. All hydrant extensions and fittings on the lead are incidental to the installation of the hydrant.

Either permanently abandon or securely bag any installed hydrant, either existing or new, that is not supplied by an in-service main overnight or for longer than 12 hours until the hydrant is permanently abandoned or back in service.

Temporary Flushing Hydrants

The installation of temporary flushing hydrants may be desired as part of the phasing and sequencing of water main installation. The furnishing, installation, use and abandonment of temporary flushing hydrants is considered incidental to water main installation.

Temporary Air Bleed

Where any installation of proposed water main does not have an adjacent hydrant or other means of bleeding air from the main, install a temporary 2-inch corporation stop at the high point of the main. Remove the stop and plug the opening after successful completion of water main testing. Installation, use, maintenance, removal and plugging of corporation stops for use as air bleeding devices are considered incidental to the installation of water main.

Abandoned Facilities

Abandoned facilities exist within the project limits and utility companies will be abandoning some additional facilities in place after relocating facilities to avoid conflicts with the proposed work. Removal by the contractor of any abandoned facilities necessary to complete the proposed work, including plugging the remaining ends of the facility, is considered incidental to the contract. Contact each utility company individually to verify if any can be expected and to possibly obtain facility maps for approximate locations. The costs to remove all abandoned utility pipes within the water main trench or related excavation will be included in the unit price bid for the respective bid item. The cost includes installing a concrete plug in the portion of the abandoned pipe that remains in place after completion of the trench or excavation.

Location of Existing Water Service Laterals

Any horizontal location and size of any water lateral indicated on the plans is taken from surveys, approximate measurements, and the Village's available records. These records are not guaranteed to be accurate in all cases and do not indicate at what depths these laterals are located. As such, determine the location and size of the existing laterals before making a tap into the new water main. Follow the plans to determine which services are to be abandoned, reconnected, extended, or replaced to the property line.

Location of Existing Water Facilities

The horizontal and vertical location and size of all existing water mains indicated on the plans is taken partially from surveys, approximate measurements, and the village's available records. These records are not guaranteed to be accurate in all cases. Due to the unverified depth and location of existing pipelines in some areas, alteration of the lines and grades shown on the plans for new pipelines where connections are to be made to existing pipelines may be necessary. Notify the engineer of locations where alterations of the lines and grades shown are necessary so that an acceptable solution can be determined.

Excavated Material

All surplus excavated material shall be disposed to a site of the contractor's choosing at contractor's cost.

Protection of Existing Sewer Facilities

Contract responsible for locating and protecting all existing sanitary sewer facilities encountered during water main construction. Any damage to existing sanitary sewer facilities shall be repair at contractor's expense. All sanitary sewer repair work shall follow Village Municipal Code and the SWS.

8. Municipality Acceptance of Water Main Construction.

Department, Village of Bonduel personnel, and village engineer will inspect construction of water main under this contract. However, construction staking, and acceptance of water main construction will be by the Village of Bonduel or village engineer.

stp-105-001 (20140630)

9. Water Main Submittal Procedures.

Scope

Contractor shall provide submittals according to this section.

Provide submittals well in advance of need for the material or equipment, or procedure (as applicable), in the Work and with ample time required for delivery of material or equipment and to implement procedures following engineer's approval or acceptance of the associated submittal. Work covered by a submittal will not be included in progress payments until approval or acceptance of related submittals has been obtained according to the contract documents.

Contractor is responsible to confirm dimensions at the site, make necessary corrections, for information pertaining solely to the fabrication processes and to techniques of construction, and for coordinating the work of all trades. Contractor's signature on submittal's stamp and letter of transmittal shall be contractor's representation that contractor has met his obligations under the contract documents relative to that submittal.

Types of Submittals

Submittal types are classified as Action Submittals or Informational Submittals. Type of each required submittal is designated in the respective Special Provisions sections; when type of submittal is not specified in the associated Specification Section, submittal will be classified as follows:

Action Submittals include:

1. Shop Drawings.
2. Product Data.
3. Delegated design submittals, which include documents prepared, sealed, and signed by a design professional properly licensed in the jurisdiction of the project and retained by contractor, subcontractor, or supplier for materials and equipment to be incorporated into the completed work. Delegated design submittals do not include submittals related to temporary construction unless specified otherwise in the related specification section. Delegated design submittals include design drawings, design data including calculations, specifications, certifications, and other submittals prepared by such design professional.
4. Samples.
5. Testing plans, procedures, and testing limitations.

Informational Submittals include:

1. Certificates.
2. Design data not sealed and signed by a design professional retained by contractor, subcontractor, or supplier.
3. Field or site quality control submittals (other than testing plans, procedures, and testing limitations), including results of operating and acceptability tests at the Site, provided by contractor as required by contract documents.
4. Supplier reports.
5. Special procedure submittals, including health and safety plans and other procedural submittals.
6. Qualifications statements.
7. When type of submittal is not specified and is not included in the list above, engineer will determine the type of submittal.

Procedure for Submittals

Submittal identification system: Use the following submittal identification system, consisting of submittal number and review cycle number.

1. Submittal Number: Shall be separate and unique number correlating to each individual submittal required. Contractor shall assign submittal number as follows:
2. Number each submittal with its associated specification section number. For subsequent resubmittals add a number. For example, if original submittal is SPV 0060.001, first resubmittal is SPV 0060.001-1.

Letter of transmittal for submittals:

1. Provide separate letter of transmittal with each submittal. Each submittal shall be for one Specification Section.
2. At beginning of each letter of transmittal, provide a reference heading indicating: Contractor's name, owner's name, project name, contract name and number, transmittal number, and submittal number.
3. For submittals with proposed deviations from requirements of the contract documents, letter of transmittal shall specifically describe each proposed variation.

Contractor's review and stamp:

1. Contractor's Review: Before transmitting submittals to engineer, review submittals to:
 - a. Assure proper coordination of the work;
 - b. determine that each submittal is according to contractor's desires;
 - c. verify that submittal contains sufficient information for engineer to determine compliance with the contract documents.
2. Incomplete or inadequate submittals will be returned without review.
3. Contractor's stamp and signature:
4. Each submittal provided shall bear contractor's stamp of approval and signature, as evidence that submittal has been reviewed by contractor and verified as complete and according to the contract documents.
5. Submittals without contractor's stamp and signature will be returned without review. Signatures that appear to be computer-generated will be regarded as unsigned and the associated submittal will be returned without review.
6. Contractor's stamp shall contain the following:

<u>CONTRACTOR'S SUBMITTAL REVIEW</u>	
Project Name:	_____
Contractor's Name:	_____
Date:	_____
Item/Submittal Title:	_____
Specification(s):	_____
Section(s):	_____
Page No(s):	_____
Paragraph No(s):	_____
Submittal No:	_____
Comments:	_____

<p>I hereby certify that Contractor has satisfied Contractor's obligations under the Contract Documents relative to Contractor's review and approval of this submittal.</p>	
Approved by (for Contractor):	_____

Submittal marking and organization:

1. Mark each page of submittal and each individual component submitted with submittal number and applicable specification paragraph.
2. Arrange submittal information in same order as requirements are written in the associated Specification section.
3. Each shop drawing sheet shall have title block with complete identifying information satisfactory to engineer.
4. Package together submittals for the same specification section. Do not provide required information piecemeal.

Format of Submittal and Recipients:

1. Action Submittals and Informational Submittals: Furnish according to Table 1.
2. Submittals shall include clear space at least 3 inches by 3 inches in size for affixing engineer's review stamp.

**TABLE 1: SUBMITTAL CONTACTS
AND REQUIRED FORMAT AND COPIES**

	Address for Deliveries	Contact Person	E-mail Address	Format*	No. of Hard copies
a.	Engineer: Ruekert & Mielke, Inc. 1400 Lombardi Ave. Ste. 101S Green Bay, WI 54304	Kevin J. Wagner, P.E.	kwagner@ruekert-mielke.com	E	N/A
* Format: E = Electronic; H = Hardcopies. TBD = To Be Determined					

Electronic submittals:

1. Format: Electronic files shall be in "portable document format (PDF)". Files shall be electronically searchable.
2. Organization and Content:
 - a. Each electronic submittal shall be one file; do not divide individual submittals into multiple files.
 - b. When submittal is large or contains multiple parts, provide PDF file with bookmark for each section of submittal.
 - c. Content shall be identical to paper submittal. First page of electronic submittal shall be contractor's letter of transmittal.
3. Quality and Legibility: Electronic submittal files shall be made from the original and shall be clear and legible. Do not provide scans of faxed copies. Electronic file shall be full size of original paper documents. All pages shall be properly oriented for reading on a computer screen.
4. Provide sufficient Internet service and e-mail capability for contractor's use in transferring electronic submittals and electronic correspondence. Check at least once per day for distribution of electronic submittals and electronic correspondence related to submittals.
5. Submitting Electronic Files:
 - a. Provide electronic files via e-mail according to Table 1.

Distribution:

6. Distribution of Electronic Copies: Upon completion of review, electronic copy of each submittal will be distributed by engineer to:
 - a. Contractor.
 - b. Owner.
 - c. Engineer's file.

Resubmittals:

1. Contractor shall make corrections required by engineer and shall return the required number of corrected copies of shop drawings and submit, as required, new samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by engineer on previous submittals.
2. Contractor shall furnish required submittals with sufficient information and accuracy to obtain required approval of an item with no more than three submittals. Engineer will record engineer's time for reviewing a fourth or subsequent submittal of a shop drawings, sample, or other item requiring approval, and contractor shall be responsible for engineer's charges to owner for such time. Owner may impose a set-off against payments due to contractor to secure reimbursement for such charges.
3. If contractor requests a change of a previously approved submittal item, contractor shall be responsible for engineer's charges to owner for its review time, and owner may impose a set-off against payments due to contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of contractor.

Engineer's Review

Timing: Allow an average 5 business days for engineer's review and response.

Submittals not required in the contract documents will not be reviewed by engineer and will not be recorded in engineer's submittal log. All hardcopies of such submittals will be returned to contractor. Electronic copies of such submittals, if any, will not be retained by engineer.

Action submittals, results of engineer's review: Each submittal will be given one of the following dispositions:

1. Approved: Upon return of submittal marked "Approved", order, ship, or fabricate materials and equipment included in the submittal (pending engineer's approval or acceptance, as applicable, of source quality control submittals) or otherwise proceed with the Work according to the submittal and the contract documents.
2. Approved as Corrected: Upon return of submittal marked "Approved as Corrected", order, ship, or fabricate materials and equipment included in the submittal (pending engineer's approval or acceptance, as applicable, of source quality control submittals) or otherwise proceed with the Work according to the submittal and the contract documents, provided it is according to corrections indicated.
3. Revise and Resubmit: Upon return of submittal marked "Revise and Resubmit", make the corrections indicated and re-submit to engineer for approval.
4. Not Approved: This disposition indicates material or equipment that cannot be approved. Upon return of submittal marked "Not Approved", repeat initial submittal procedure utilizing approvable material or equipment.

Informational submittals, results of engineer's review:

1. Each submittal will be given one of the following dispositions:
 - a. Accepted: Information included in submittal conforms to the applicable requirements of the contract documents and is acceptable. No further action by contractor is required relative to this submittal, and the work covered by the submittal may proceed, and products with submittals with this disposition may be shipped or operated, as applicable.
 - b. Not Accepted: Submittal does not conform to applicable requirements of the contract documents and is not acceptable. Revise submittal and re-submit to indicate acceptability and conformance with the contract documents.

10. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.

There are wetlands within the right-of-way, however, impacts are not anticipated based on the proposed slope intercepts. Therefore, the department has not requested or obtained a U.S. Army Corps of Engineers Section 404 Permit for this project.

Methods of operations, including preparatory work, staging, site clean-up, storing materials, or causing impacts to wetlands or waters are not permitted. If the contractor requires work outside the proposed slope intercepts, based on their method of operation to construct the project, it is the contractor's responsibility to determine whether a U.S. Army Corps of Engineers Section 404 Permit is required. If a Section 404 Permit is necessary, obtain the permit prior to beginning construction operations requiring the permit. No time extensions as discussed in standard spec 108.10 will be granted for the time required to apply for and obtain the permit. The contractor must be aware that the Corps of Engineers may not grant the permit request.

Information on USACE Section 404 permits is available on the USACE's website:

<https://www.mvp.usace.army.mil/Missions/Regulatory.aspx>

stp-107-054 (20230113)

11. Public Convenience and Safety.

Revise standard spec 107.8(6) as follows:

Notify the following organizations and departments at least two business days before road closures, lane closures, or detours are put into effect:

- Shawano County Sheriff's Department
- Wisconsin State Patrol
- Shawano County Highway Department
- Village of Bonduel Public Works Department
- Bonduel Area Public School District
- U.S. Post Office, Bonduel

The Shawano County Sheriff's Department 911 dispatches all area police, fire and ambulance services, and will relay any notification given by the contractor.

12. Property Marks – Protecting and Restoring.

Replace standard spec 107.11.3 (1) with the following:

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

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

ncr-107-010 (20110531)

13. 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

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)

14. Erosion Control.

Add the following to standard spec 107.20:

Perform construction operations in a timely and diligent manner, continuing all construction operations methodically from the initial topsoil stripping operation through the subsequent grading and finishing to minimize the period of exposure to erosion.

Replace topsoil on disturbed areas, including spot locations such as cross drains, driveways, guardrail and terminals, and intersections, immediately after grading is completed within those areas. Complete finishing operations, which includes seed, fertilizer, erosion mat, mulch, and any other permanent erosion control measures required, within seven calendar days after the placement of topsoil.

ncr-107-050 (20141015)

15. 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 a meeting one week prior to each traffic staging change. The contractor shall arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least two weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

16. QMP HMA Pavement Nuclear Density.

A Description

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

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

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

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

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

B Materials

B.1 Personnel

- (1) Nuclear gauge owners and personnel using nuclear gauges shall comply with WisDOT requirements according to 460.3.3 and CMM 8-15.

B.2 Testing

- (1) Conform to ASTM D2950 and CMM 8.15 for density testing and gauge monitoring methods. Conform to CMM 8-15.10.4 for test duration and gauge placement.

B.3 Equipment

B.3.1 General

- (1) Furnish nuclear gauges according to CMM 8-15.2.
(2) Furnish nuclear gauges from the department's approved product list at:

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

B.3.2 Comparison of Nuclear Gauges

B.3.2.1 Comparison of QC and QV Nuclear Gauges

- (1) Compare QC and QV nuclear gauges according to CMM 8-15.7.

B.3.2.2 Comparison Monitoring

- (1) Conduct reference site monitoring for both QC and QV gauges according to CMM 8-15.

B.4 Quality Control Testing and Documentation

B.4.1 Lot and Sublot Requirements

B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances

- (1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.
(2) Determine required number of tests according to CMM 8-15.10.2.1.
(3) Determine random testing locations according to CMM 8-15.10.3.

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

- (1) Divide the pavement into lots and sublots for nuclear density testing according to CMM 8-15.10.2.
(2) Determine required number of tests according to CMM 8-15.10.2.2.
(3) Determine random testing locations according to CMM 8-15.10.3.

B.4.2 Pavement Density Determination

B.4.2.1 Mainline Traffic Lanes and Appurtenances

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

B.4.2.2 Mainline Shoulders

B.4.2.2.1 Width Greater Than 5 Feet

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

B.4.2.2.2 Width of 5 Feet or Less

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

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

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

B.4.2.4 Documentation

- (1) Document QC density test data as specified in CMM 8.15. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

B.4.3 Corrective Action

- (1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.
- (2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted subplot. Testing in a previously accepted subplot will not be used to recalculate a new lot density.
- (3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full subplot width within the traffic lanes or shoulders.
- (4) Retesting and acceptance of replaced pavement will be as specified in standard spec 105.3.
- (5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the subplot and lot densities.
- (6) If two consecutive subplot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

B.5 Department Testing

B.5.1 Verification Testing

- (1) The department will have a HTCP certified technician, or ACT working under a certified technician, perform verification testing. The department will test randomly at locations independent of the contractor's QC work. The department will perform verification testing at a minimum frequency of 10 percent of the sublots and a minimum of one subplot per mix design. The sublots selected will be within the active work zone. The contractor will supply the necessary traffic control for the department's testing activities.
- (2) The QV tester will test each selected subplot using the same testing requirements and frequencies as the QC tester.
- (3) If the verification subplot average is not more than one percent below the specified minimum target density, use the QC tests for acceptance.
- (4) If the verification subplot average is more than one percent below the specified target density, compare the QC and QV subplot averages. If the QV subplot average is within 1.0 lb/ft³ of the QC subplot average, use the QC tests for acceptance.
- (5) If the first QV/QC subplot average comparison shows a difference of more than 1.0 lb/ft³ each tester will perform an additional set of tests within that subplot. Combine the additional tests with the original set of tests to compute a new subplot average for each tester. If the new QV and QC subplot averages compare to within 1.0 lb/ft³, use the original QC tests for acceptance.

- (6) If the QV and QC subplot averages differ by more than 1.0 lb/ft³ after a second set of tests, resolve the difference with dispute resolution specified in B.6. The engineer will notify the contractor immediately when density deficiencies or testing precision exceeding the allowable differences are observed.

B.5.2 Independent Assurance Testing

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

B.6 Dispute Resolution

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

B.7 Acceptance

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

C (Vacant)

D (Vacant)

E Payment

E.1 QMP Testing

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

E.2 Disincentive for HMA Pavement Density

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

E.3 Incentive for HMA Pavement Density

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

stp-460-020 (20181119)

17. Concrete Masonry Retaining Walls.

Replace the following to standard spec 504.5(2):

Payment for the Concrete Masonry Culverts and the Concrete Masonry Retaining bid items is full compensation for materials, steel material, forms, falsework, placing, finishing, curing, protecting, and heating; and for providing nameplates.

18. Field Facilities.

Add the following to standard spec 642.3:

Set up the field office within seven days after notice from the engineer.

Provide a parking area large enough to park a minimum of six cars directly adjacent to the field office. The parking area and approach to the field office shall be well drained and consist of a crushed base aggregate or an existing paved surface and shall be ready for use within seven days after the field office is set up.

ncr-642-005 (20160406)

19. Traffic Control.

Add the following to standard spec 643.3.1:

Lighting devices shall be covered or rendered inoperative when not in use.

Provide the engineer and law enforcement (police, sheriff and State Patrol) the current telephone number(s) that the contractor, or their representative, can be contacted at, at all times, in the event a safety hazard develops. Repair, replace, or restore the damaged or disturbed traffic control devices within two hours from the time notified or made aware of the damaged or disturbed traffic control devices.

Promptly replace all state-owned signs that are removed by the contractor due to interference with construction operations. At no time may stop signs be removed or moved without flag persons present.

Add the following to standard spec 104.6.1.2.2:

Provide a dedicated person or alternate method to guide traffic travelling alongside or near moving operations such as milling, paving, and shouldering.

ncr-643-005 (20190703)

20. General – Electrical Work

Traffic Signal Controller and Cabinet

The department will furnish and install the traffic signal controller and cabinet for the traffic signal installed at STH 117 and CTH BE in the Village of Bonduel Point. Notify the department's North Central Region electrician, Ken Radke at (715) 459-4264 a minimum of 10 working days prior to the desired traffic signal controller and cabinet installation date.

Electrical Service

Furnish and install the electrical service meter breaker pedestal for the traffic signal installed at STH 117 and CTH BE under the pertinent bid item. This includes the electrical service installation or relocation request for this facility.

Concrete Control Cabinet Bases Type 9 Special

The contractor will be responsible for the installation of the concrete control cabinet base under the pertinent bid item provided in the contract. Finish grade the service trench, replace topsoil which may become lost or contaminated, seed, fertilize, and mulch all areas which are disturbed by the electric utility company after installing the electric service lateral.

ncr-651-005 (20160425)

21. Notice to Contractor – Traffic Signal Loop Installation in Asphaltic Pavement Areas

Project 9220-04-72 includes loop installation in Asphaltic Pavement Areas at the STH 117 and CTH BE intersection. Coordinate installation of all in pavement loops in the existing asphalt pavement in a manner that saw cut visibility is mitigated after the final asphaltic pavement lift is completed. The contractor is to follow the following sequence for each loop location, unless instructed otherwise by the engineer in the field:

1. Saw pavement and remove pavement slab prior to asphaltic overlay, when staging allows during the detour of traffic.
2. Install loops in existing base course according to SDD 9F15-4b (Loop Detector Installed In Base Course With Pull-Splice-Box Off Roadway-Option 2).
3. After installation of loop is complete, proceed with the asphalt overlay work.

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

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

23. Lamp, Ballast, LED, Switch Disposal by Contractor, Item 659.5000.S.

A Description

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

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

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

B Materials

B.1 Disposal by Contractor

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

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

C Construction

C.1 Removal

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

Detach and remove luminaires and lamps from the existing traffic signal poles or respective structure.

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

C.2 Packaging of Hazardous Materials

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

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

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

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

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

Pack ballasts and mercury containing switches in appropriate containers.

C.3 Disposal by Contractor

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

D Measurement

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

E Payment

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

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

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

stp-659-500 (20220628)

24. Fertilizer for Lawn Type Turf, Item SPV.0030.01.

A Description

This special provision describes furnishing and incorporating fertilizing material in the soil on areas of seeding or sod.

B Materials

Use fertilizers that are standard, commercial, packaged, or bulk products, in granular or liquid form conforming to Wisconsin Statutes and the Wisconsin Administrative Code Chapter ATCP 40. Ensure that each container of packaged fertilizer is plainly marked with the analysis of the contents showing minimum percentages of total nitrogen, available phosphoric acid, and soluble potash. If furnishing the fertilizer in bulk, include an invoice with each shipment indicating the minimum percentages of total nitrogen, available phosphoric acid, and soluble potash in the contents.

The total of nitrogen, phosphoric acid, and potash shall equal at least 41 percent. At least 80% of the nitrogen shall be water insoluble.

If using fertilizer with a nitrogen, phosphoric acid, and potash total greater than 41 percent, maintain a ratio of 4-1-2 (N-P-K) and apply at a rate that provides the equivalent amount of nitrogen, phosphoric acid, and potash that is provided by a fertilizer with a 41 percent total.

Provide a slow release type fertilizer with a 14-week residual effect after activation into the soil conforming to the following minimum requirements:

Nitrogen,..... not less than 22%
Phosphoric Acid,..... not less than 5%
Potash,.....not less than 10%

C Construction

Uniformly apply the fertilizer to the seeding areas and incorporate it into the soil by light discing or harrowing. If applying granular fertilizer, ensure it is well pulverized and free from lumps.

If incorporating fertilizer into topsoiled areas, apply it just before, and in conjunction with, final discing or harrowing, or if hand manipulating the topsoil, apply it just before final raking and leveling.

If fertilizing areas to receive sod, spread the fertilizer at the rate specified below uniformly over the soil before placing sod, and then work the fertilizer into the soil while preparing the earth bed as specified in standard spec 631.3.1.

Apply fertilizer containing 41 percent total of nitrogen, phosphoric acid, and potash at 7 pounds per 1000 square feet of area, unless the contract specifies otherwise. For Fertilizer for Lawn Type Turf that contains a different percentage of components, determine the application rate by multiplying the specified rate by a dimensionless factor determined as follows:

Conversion Factor = 41 / New Percentage of Components

D Measurement

The department will measure Fertilizer for Lawn Type Turf by the hundred pounds (CWT), acceptably completed, and it will be measured based on an application rate of 7 pounds per 1000 square feet. The department will not measure fertilizer used for the bid items under standard spec 632. The measured quantity equals the number of hundred-weight (CWT) of material determined by multiplying the actual number of CWT. of material incorporated by the ratio of the actual percentage of fertilizer components used to 41 percent for Fertilizer for Lawn Type Turf.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0030.01	Fertilizer for Lawn Type Turf	CWT

Payment is full compensation for providing, hauling, placing, and incorporating the fertilizer into the soil.

ncr-629-005 (20141015)

25. Hydrant Assembly, Item SPV.0060.01.

A Description

Work under this item shall include furnishing and installing a hydrant assembly including tee fitting at main, valve, and valve box as identified on the plans and as required to complete the installation.

B Materials

Fire hydrants shall be dry-bury type meeting the requirements of AWWA C110, C111, and C502. Hydrants shall be ductile iron, 250 psi rated working pressure. Hydrants shall be traffic rated as specified in AWWA C502 except which is modified to permit a complete 360-degree rotation, or any increment thereof.

Hydrants shall be provided with the following features:

1. 7'-6" bury depth
2. 6" mechanical joint inlet
3. 5-1/4" main valve opening
4. One 4 1/2" pumper nozzle with National Standard Threads
5. Two 2 1/2" hose nozzles with National Standard Threads
6. Nozzle caps with chains
7. Pentagon operating nut, open counterclockwise, conforming to AWWA C502. Material of the operating nut shall be either hardened bronze or ductile iron.
8. Painted red. Painting shall be according to AWWA C502.

All extensions shall be made for insertion below the breakable flange. Extensions shall be made from the same material as that of the barrel. The hydrant must be designed to allow the use of barrel extension kits, which allow the raising of the hydrant to a new grade while retaining the "Safety Coupling and Breakable Flange" traffic collision feature at the new grade. Extension kits are to be in 6" increments, with the shortest being 6" long.

All nozzles shall be at the same elevation. Nozzle shall be capable of being threaded into the upper barrel and shall be mechanically locked in place. The distance from the base of the operating nut to the center of the pumper nozzle shall not be less than 7-1/8". The distance between the ground and the center of the pumper nozzle shall not be less than 15 inches nominal dimension.

Hydrant and valves shall be Waterous, Mueller, U.S. Pipe, or approved equal.

C Construction

Install fittings, valves and hydrants at locations shown on the drawings.

Unless otherwise shown, provide restrained mechanical joint connections. Install materials according to manufacturer's recommendations.

Maintain electrical continuity through all fittings, valves, and hydrants. Place hydrants and valves on 4"x8"x16" solid concrete masonry units set on compacted soil.

Install joint restraints according to the requirements of this section. Install valve box so that bonnet rests on compacted initial backfill material at the same elevation as the top of the valve stuffing box. Center the valve box over the valve nut.

Install valve box plumb and level, backfilling evenly. Extend valve box to proposed final grade; provide valve box extensions as necessary. Valve boxes that shift during backfilling or restoration shall be excavated and re-set.

Mark all valve boxes with a steel "U" fence post to protect them from damage.

Install hydrants at elevation shown on drawings or as required to provide a minimum of 6.5' cover over the hydrant lead.

Place approximately 1/2 cy of clear stone bedding material from the base of the hydrant to 6" above the drain holes on the hydrant elbow. Cover clear stone material with a "skirt" of polyethylene encasement bag material to prevent backfill material from migrating into the clear stone.

Install hydrant plumb and level, backfilling all sides evenly.

Cover all new hydrants with a plastic garbage bag or similar cover until the main has been filled and placed in service.

D Measurement

The department will measure Hydrant Assembly as each, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Hydrant Assembly	EACH

Payment is full compensation for furnishing all work including back filling, mechanical joints, and adjustment of hydrant elevations to meet minimum height above sidewalk, pavement, or finished grades within the work area.

26. Water Valve 8-Inch, Item SPV.0060.02.

A Description

Furnish and install water main valves and associated accessories. Work includes all equipment, labor and materials to provide water valve and valve box and install as shown on plans. Includes excavation, bedding material, backfill material, compaction, blocking, bonding, valve box adapter, abandoning existing valves, valve stem extenders, and adjustment to final grade. Includes PVC pipe and cap insert for valves that are on dead ends or have plug and buttress.

B Materials

B.1 Valves

Resilient seated gate valves:

1. Follow AWWA C509 including:
 - a. Nonrising stem.
 - b. Mechanical joint.
 - c. Actuator: wrench nut.
 - d. Opens counterclockwise.
 - e. Stem seals: O-ring.
 - f. Epoxy interior and exterior coating following ANSI/AWWA C550.
 - g. Follow SWS 8.27.0.

Valve enclosures:

1. Boxes:
 - a. Cast iron assembly, size DD, cover marked "WATER".
 - b. Manufacturers: Tyler 6860, Sigma VB630DD, Star VB DHD DW.
 - c. Follow SWS 8.29.0.
 - d. Valve box adapters: Adaptor, Inc.

Valve stem extenders:

1. Securely attached to valve operator.
2. Extend to 2 feet (plus-or-minus 3 inches) below finished grade.
3. For 6 feet and longer provide one piece, solid shaft.
4. Epoxy-coated iron with stainless steel pins or bolt.
5. Spacer ring at 3 inches below operating nut.

B.2 Valve Box

Valve boxes shall be screw type and shall consist of a base, middle section, top section with cover and intermediate extension sections. The top section shall be designed to thread onto the middle section so that the unit can be adjusted to a variable length. The top section shall be designed to receive a circular drop cover.

The valve box and component parts shall be cast iron according to ASTM-A48 class 20, 30, 35, or approved equal.

Boxes shall be 5-1/4" with stay-put "WATER" cover.

The cast iron valve box and components shall be free from blowholes, cold shots, shrinkage defects, cracks or other injurious defects and shall have a normal smooth casting finish.

All cast iron valve boxes and components shall be thoroughly coated with asphaltic pitch varnish or approved equal.

Provide valve box extensions as necessary to accommodate depth of cover shown on drawings, or 6.5-foot minimum.

Valve boxes shall be Bingham & Taylor, East Jordan Iron Works, Tyler, or approved equal.

C Construction

Set valve boxes to asphaltic binder grade after curb and gutter placement and before asphalt placement. Final adjust to ¼-inch to ½-inch below finish grade.

D Measurement

The department will measure Water Valve (Size) by the each, 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	Water Valve 8-Inch	EACH

Payment is full compensation for furnishing and installing the valve, valve box, valve box adaptor, and paving extension ring, and for all excavating and backfilling.

- 27. **1-Inch Curb Stop and Box, Item SPV.0060.03;**
1-Inch Tap and Corporation Valve, Item Valve SPV.0060.04;
1-Inch Water Service Pipe, Item SPV.0090.03.

A Description

Work under this item shall consist of providing 1-Inch Water Service Pipe, 1-Inch Water Service Tap and Corporation Stop at the new water main, and a 1-Inch Curb Valve and Box as shown in the plans and as hereinafter provided.

B Materials

B.1 Water Service Pipe

Water Service Pipe (size) shall be Type K copper water tube, O (annealed) temper, ASTM B88; with cast copper pressure fittings, ANSI B16.18; wrought copper pressure fittings, ANSI B16.22; lead free (<0.2%) solder, ASTM B32; flux, ASTM B813; or cast copper flared pressure fittings, ANSI B16.26.

B.2 Service Saddles

Double strap, bronze service saddles shall meet the requirements of AWWA C800. Service saddles shall be provided with nitrile O-ring gasket and AWWA Taper outlet.

Service saddles shall be properly sized to accommodate both the main and service lines. Mueller BR 2B Series, Ferguson, Romac, or approved equal.

B.3 Corporation Stops

Corporation stops shall be brass, ball style. Inlets shall be AWWA Taper; outlet connection shall be compression having a positive indicator to avoid over-tightening.

Corporation stops shall be Mueller B-25008, A.Y. McDonald Mfg. Co., or approved equal.

B.4 Curb Stops

Curb stops shall be brass, with compression connections having a positive indicator to avoid over-tightening. Curb stops shall be provided with a quarter turn check.

Curb stops shall be Mueller B-25209, A.Y. McDonald Mfg. Co., or approved equal.

B.5 Unions

Unions shall be 3-piece brass, with compression connections having a positive indicator to avoid over-tightening.

Unions shall be Mueller H-15403, A.Y. McDonald Mfg. Co., or approved equal.

B.6 U-Branch, Wyes, Etc.

U-branch, wye and other fittings shall be brass, with compression connections having a positive indicator to avoid over-tightening. Fittings shall be produced specifically for water supply applications. Mueller, A.Y. McDonald Mfg. Co., or approved equal.

C Construction

Connect copper water service piping to watermain as shown on the drawings.

Watermain taps shall be made under pressure using a tapping machine specifically designed to tap and install corporation stops. Dry watermain taps are not allowed.

Service saddles shall be installed on services where the corporation stop is 1 ½" nominal diameter or greater.

Provide a horizontal offset adjacent to the main for all copper services. Comply with pipe manufacturer's requirements with respect to minimum radius on bends.

Install curb stops as shown on the drawings. If specific curb stop location is not shown on the drawings, consult with DFD Project Representative to determine acceptable location prior to installing.

Place curb stop box on a 4"x8"x8" solid concrete masonry unit set on compacted ground. Orient box so that no portion of the box bears on the water service or curb stop.

Install curb stop box plumb and level and backfill all side simultaneously. Extend curb stop box to proposed final grade; provide extensions as necessary. Curb stop boxes that shift during backfilling or restoration shall be excavated and reset.

Install copper water service as shown on the drawings. Prepare copper pipe joints according to pipe and fitting manufacturer recommendations. Cut pipe squarely, remove burs and round ends as necessary.

Install fittings according to manufacturer's recommendations. Torque compression connections to recommended tightness; do not over-tighten compression joints.

Provide dead-end copper water services with compression connectors fitted with plugs. Do not tap or crimp the ends of copper water services shut.

Locate the geographic location of all dead-end services and curb stop boxes and note actual location on As-Built Drawings.

D Measurement

The department will measure 1-Inch Curb Stop and Box and 1-Inch Tap, and Corporation Valve by each unit, acceptably completed.

The department will measure 1-Inch Water Service Pipe by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.03	1-Inch Water Service Pipe	LF
SPV.0060.03	1-Inch Curb Stop and Box	EACH
SPV.0060.04	1-Inch Tap and Corporation Valve	EACH

Payment is full compensation for placement, backfill, abandonment of existing water services, and removal of existing curb stops for existing services that are replaced with new services.

28. Adjust Sanitary Manhole, Item SPV.0060.06.

A Description

This special provision describes Adjusting existing sanitary manhole covers to grade by adding or removing concrete adjusting rings. Perform this work according to standard spec 611 and as hereinafter provided.

B Materials

Furnish concrete adjusting rings from a department-approved source; rings shall match the dimensions of existing rings and/or manhole castings. Reinforce concrete rings with one line of steel centered within the ring.

C Construction

Set adjusting rings and manhole frames with both butyl rubber sealant and non-shrink grout as follows. Use EZ-Stik or Kent-Seal butyl base sealant in trowelable grade or equal butyl rubber sealant and apply in a 1/4" thick layer to the outside 1" of the 6" wide horizontal surface of all adjusting rings and cone section. Apply a non-shrink grout in a 1/4" thick layer to the remaining 5" of inside horizontal surface of all adjusting rings and cone section.

Furnish and use non-shrink grout that is a premixed, non-metallic, cementitious, control expansion, high strength, versatile grout: PenngROUT by IPA Systems, Inc. or equal.

Cover the entire outside surface of the manhole chimney, including all adjusting rings, and overlap both the manhole cone or flat-top slab (a minimum of 4") and the manhole frame with the minimum 1/4" thick coating of butyl rubber sealant. The butyl rubber sealant shall be EZ-stick or Kent-Seal butyl base sealant in trowelable grade or equal.

Perform sanitary manhole cover adjustments prior to the installation of the binder layer of asphalt.

D Measurement

The department will measure Adjusting Sanitary Manhole Covers by each adjustment location, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Adjust Sanitary Manhole	EACH

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

29. Removing Valve Boxes, Item SPV.0060.07.

A Description

This special provision describes removing existing abandoned valve boxes.

B (Vacant)

C Construction

Remove existing valve box by cutting at a depth of 18 to 24 inches. Backfill below subgrade with granular backfill and dispose of removed valve box. Remove valve box during or after concrete removal for pavement repair, and prior to the installation of new concrete.

D Measurement

The department will measure Removing Valve Boxes by each valve box removal, 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	Removing Valve Boxes	EACH

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

30. Adjust Water Valve Box, Item SPV.0060.08.

A Description

This special provision describes adjusting water valve boxes to match proposed grades.

B (Vacant)

C Construction

Adjust the water valve box by screwing the existing valve box up or down. Existing broken or valve boxes damaged prior to construction operations will be replaced by the Village of Bonduel at their expense. Water valve boxes damaged by the contractor during construction will be replaced at the contractor's expense.

D Measurement

The department will measure Adjusting Water Valve Boxes by the unit each, 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.0060.08	Adjust Water Valve Box	EACH

Payment is full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete this item of work.

31. Water Main Vertical Offset, Item SPV.0060.09.

A Description

This special provision describes providing vertical bends where necessary to offset water main due to discovery of conflict with the proposed line and grade of the water main as directed by engineer. Includes time and material cost for installation of bends and thrust restraint in order to avoid conflict.

B Materials

Furnish fittings, four bends, and water main as described for bid items:

- SPV.0090.01 8-Inch PVC Water Main
- SPV.0090.02 6-Inch PVC Hydrant Lead
- SPV.0090.03 1-Inch Water Service Pipe.

C Construction

Install fittings, bends, and thrust restraints to offset the water main vertically to bypass obstacles.

D Measurement

The department will measure Water Main Vertical Offset by each, 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	Water Main Vertical Offset	EACH

Payment is full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete this item of work.

32. Water Service Vertical Offset, Item SPV.0060.10.

A Description

This special provision describes providing vertical bends where necessary to offset a water service due to discovery of conflict with the proposed line and grade of the water main as directed by engineer. Includes time and material cost for installation of bends and thrust restraint in order to avoid conflict.

B Materials

Furnish fittings, four bends and water service piping for plastic pipe, or couplings and water service piping for copper pipe, as described for bid items:

- SPV.0060.03 1-Inch Curb Stop and Box
- SPV.0060.04 1-Inch Tap and Corporation Valve
- SPV.0090.03 1-Inch Water Service Pipe

C Construction

Install fittings, bends, and thrust restraints to offset the water main vertically to bypass obstacles.

D Measurement

The department will measure Water Service Vertical Offset by each, 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	Water Service Vertical Offset	EACH

Payment is full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete this item of work.

33. Air Release Valve Assembly, Item SPV.0060.11.

A Description

This special provision describes providing Air Release Valve Assembly including valve box, 2-inch copper tube, valve stem, curb stop.

B Materials

Furnish air release assembly in box per SWS 4.12.0.

C Construction

Follow SWS 4.12.0 for construction requirements.

D Measurement

The department will measure Air Release Valve Assembly by each, 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	Air Release Valve Assembly	EACH

Payment is full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete this item of work.

34. Research and Locate Existing Land Parcel Monuments, Item SPV.0060.12.

A Description

This special provision describes researching and locating existing land parcel or boundary monuments located in permanent easements, temporary easements, or construction permit areas, which may be lost or disturbed by construction operations.

This provision does not relinquish the contractor’s responsibility of standard spec 107.11.

B (Vacant)

C Construction

Perform work by, or under the direction of, a professional land surveyor licensed in the State of Wisconsin.

Prior to construction, research, locate and document monuments located in permanent easements, temporary easements and construction permit areas. Establish coordinate ties to the monuments accurate to current minimum state survey standards.

Prepare a monument location map showing the type of monuments found and their coordinates. The transportation project plat (TPP) is acceptable as a base map for the monument location map. Provide a copy of the monument location map to the engineer and region right-of-way plat coordinator.

Verify and reset monument locations after construction is complete under the item titled Verify and Replace Existing Land Parcel Monuments.

D Measurement

The department will measure Research and Locate Existing Land Parcel Monuments as each individual monument, 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.0060.12	Research and Locate Existing Land Parcel Monuments	EACH

Payment is full compensation for all research, field survey, locating, and data recording necessary to locate and establish coordinates for existing monuments within the construction limits prior to construction; furnishing a professional land surveyor; preparing, annotating and delivering the monument location map.

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35. Verify and Replace Existing Land Parcel Monuments, Item SPV.0060.13.

A Description

This special provision describes verifying the final location of, and replacing existing land parcel or boundary monuments, previously located under the item Research and Locate Existing Land Parcel Monuments, that are lost or disturbed by construction operations.

This provision does not relinquish the contractor’s responsibility of standard spec 107.11.

B Materials

Provide minimum sized replacement monuments as follows:

- Locations outside of pavement areas:
 - 1-inch inside diameter by 24 inch long iron pipe
 - 3/4-inch diameter by 24 inch long rod or rebar
- Locations in asphalt pavement areas:
 - Survey spike
 - Mag nail
- Locations in concrete pavement areas:
 - Drilled hole
 - Chiseled mark

C Construction

Perform work by, or under the direction of, a professional land surveyor licensed in the State of Wisconsin.

After construction is completed, verify the location of all monuments previously located with the item Research and Locate Existing Land Parcel Monuments. Replace any monuments that were disturbed or destroyed to current minimum state survey standards.

Prepare a monument location map showing the type of monuments originally found, the type of replacement monuments used to replace the disturbed or destroyed monuments, and monument coordinates. The transportation project plat (TPP) is acceptable as a base map for the monument location map. Create the location map with a PDF editing tool such as Adobe or Bluebeam. The monument location map shall explicitly state that the replaced monuments are not being certified as actual land parcel or boundary monuments, only that evidence of monuments were found and replaced. Attach a cover letter to the location map that contains a brief synopsis of the work completed. The cover letter shall be signed, stamped, and dated by a professional land surveyor. Provide a copy of the monument location map and cover letter to the engineer, the county surveyor, and the region plat coordinator.

D Measurement

The department will measure Verify and Replace Existing Land Parcel Monuments as each individual monument, 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.0060.13	Verify and Replace Existing Land Parcel Monuments	EACH

Payment is full compensation for all survey work necessary to verify the location of all monuments previously located under the item Research and Locate Existing Land Parcel Monuments; replacing monuments that were disturbed or destroyed from their original location; furnishing monuments or other necessary tools; furnishing a professional land surveyor; preparing, annotating and delivering the monument location map and cover letter.

ncr-621-020 (20170404)

36. Salvage Traffic Signals STH 117 & CTH BE Intersection, Item SPV.0060.14.

A Description

This special provision describes removing and salvaging traffic signals according to the pertinent provisions of standard spec 204 and as hereinafter provided.

B (Vacant)

C Construction

Inventory the quantity and condition of the traffic signals, lighting equipment, and pull box frames and covers prior to removal. Provide the engineer and the department’s North Central Region electrician with a copy of the inventory.

Notify the department’s electrician at least three working days prior to the desired starting date for the removal of the traffic signals. The department’s electrical unit will arrange for de-energizing the signals with the local electrical utility. The department’s electrical unit will verify that the traffic signals have been de-energized and will then notify the engineer.

Remove and salvage the traffic signals and pull box frames and covers, following notification by the engineer to do so, in such a manner that they are not damaged. If the traffic signal cabinet requires removal, contact the department’s electrician at least three working days prior to the desired starting date for the cabinet removal. The department’s electrical unit will be responsible for all work to remove the traffic signal cabinet and its internal modules.

Remove the traffic signal standards and poles from their concrete bases. Remove the attached transformer bases, trombone arms, and luminaire arms from the standards or poles. Access hand holedoors and hardware shall remain intact. Remove the pull box frames and covers from the corrugated pipe.

Notify the department’s electrician at least three working days prior, to make arrangements for delivering the salvaged traffic signals to the region’s electrical shop. Load, transport, and unload the salvaged materials from the construction site to the designated location. Dispose of the underground cable, wires, and conduits properly.

Department's electrical contact information:

- Department's electrician: Ken Radke, (715) 459-4264)
- Region's electrical shop: North Central Region Wisconsin Rapids Shop 2841 Industrial Street, Wisconsin Rapids

D Measurement

The department will measure Salvage Traffic Signals STH 117 & CTH BE Intersection as each intersection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.14	Salvage Traffic Signals STH 117 & CTH BE Intersection	LS

Payment is full compensation for inventorying; disconnecting the wiring of the traffic signals; removing and disassembling the traffic signals; removing the pull box frames and covers; loading, transporting, and unloading the salvaged traffic signal materials from the construction site to the designated location. The removal of concrete bases will be paid for separately under the pertinent items provided in the contract.

37. Repair and Regrout Structures, Item SPV.0060.15.

This work is according to standard spec 611, except as hereinafter modified.

A Description

This special provision describes repairing and regrouting manhole structures at the locations shown on the plans according to the pertinent provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish materials conforming to the requirements specified in standard spec 611.2.

C Construction

Repair and regrout manhole structures as shown in the plans and as specified in standard spec 611.3.

D Measurement

The department will measure Repair and Regrout Structures 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.0060.15	Repair and Regrout Structures	EACH

Payment is full compensation for furnishing all construction and materials, including concrete mortar, bricks, and forms, placing, finishing, and curing.

38. Storm Main Crossing, Item SPV.0060.016.

A Description

This special provision describes providing support to existing storm main while constructing the proposed water main underneath existing storm main. Contractor shall be responsible for damages to storm main.

B Materials

Furnish materials as necessary to provide support to the existing storm main for the full width of the trench at the location of the crossing with the proposed water main.

C Construction

Storm main shall be completely supported across the full trench width while constructing water main underneath. Damages to the storm main will be repaired at the contractor's expense.

D Measurement

The department will measure Storm Main Crossing by each, 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.0060.016	Storm Main Crossing	EACH

Payment is full compensation for furnishing all materials, labor, tools, equipment and incidentals necessary to complete this item of work.

39. Internal-External Sanitary Manhole Seal, Item SPV.0060.017.

A Description

This special provision describes furnishing and installing internal-external seals as shown in the construction details on the plans for all adjusted sanitary manholes. Perform work according to the Standard Specifications for SWS, latest edition.

B Materials

Furnish an Adaptor, Inc. Internal-External Adaptor Sanitary Manhole Seal. The seal is shown in the construction details on the plans and shall meet the material requirements of section 8.42.3 and the performance requirements of section 8.42.4 of the SWS, latest edition.

C Construction

Install seals according to the manufacturer's recommended installation procedures.

Water test the seal in the presence of the WisDOT engineer.

D Measurement

The department will measure Internal-External Sanitary Manhole Seal by each seal, 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.0060.017	Internal-External Manhole Seal	EACH

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

**40. 8-inch PVC Water Main, Item SPV.0090.01;
6-inch PVC Water Main, Item SPV.0090.06.**

A Description

This special provision describes constructing water main at the locations shown on the plans, including required excavation, backfilling, fittings, insulation, connections to existing water main, and other pipe materials, according to the plans and as herein provided.

Abandonment of existing water mains shall be considered incidental.

B Materials

B.1 PVC Water Main

Polyvinyl chloride pipe shall have a dimension ratio (DR) of 18 or less and conform to the requirements of AWWA C900. Pipe shall meet applicable NSF standards for use in a potable water distribution system.

PVC watermain joints shall be rubber gasket push-on joint conforming to ASTM D 3139, using a gasket that conforms to ASTM F477.

Provide bedding and cover material in conformance with Section 8.43.2 Table 32 of the SWS and shall consist of 3/8-inch crushed limestone with a minimum of 4 inches bedding to a cover of 12 inches above the crown of the pipe. Care must be taken to ensure proper compaction of said bedding material under the lower quadrants of the pipe.

B.2 Tracer Wire

Provide tracer wire following SWS 2.11.0. Tracer wire shall be Direct-burial-rated insulated AWG #10 copper conductor. Splices shall be Pro-Trace TW connector or equal. Location boxes for tracer wire access shall be Valvco, Inc. with a plain cover marked "WATER" to match buried pipeline

B.3 Fittings

Provide fittings composed of ductile iron Class 52 with bituminous exterior coating conforming to the requirements of ANSI/AWWA C110/A21.10 and cement lined and bituminous interior conforming to the requirements of ANSI/AWWA C104/A21.4. Fittings shall have a pressure rating of 250 PSI for full body fittings and 350 PSI for compact fittings. Joints shall be mechanical when buried and flanged in structures.

B.4 Insulation

Insulation shall follow SWS 8.50.0.

C Construction

C.1 Method

Install water main relay 12-inch at the locations shown on the plans or as directed by the engineer and in compliance with the details and dimensions shown on the plans.

Construction methods shall be according to the applicable sections of the Standard Specifications for Sewer and Water Construction in Wisconsin, sixth edition (SWS).

Contractor shall install a tracer wire above all polyvinyl chloride (PVC) pipe. Joint deflections required for horizontal and vertical breaks indicated on the plans shall be limited to 2 degrees or less. If a larger deflection is required, it shall be made with a bend fitting or gradually over two or more joints.

All trenches in the surfaced section of existing streets, driveways, parking areas, street shoulders, or within five feet of the edge of such surfaces or shoulders shall be backfilled with crushed stone or crushed concrete backfill. Crushed stone or crushed concrete backfill shall conform to the 1-1/2 inch graded crushed stone called for in SWS 8.43.7.

Compaction of the backfill shall be accomplished by flooding the trench according to SWS 2.6.14(a) unless conditions and sub-soil conditions warrant another form of compaction. Determination of compaction method shall be requested from the engineer at the start of excavation. A determination will not be made during the bidding process or after the water main has been backfilled. Contractor shall obtain a water meter from the Village of Bonduel to meter all water used for flooding backfill. The contractor shall correct settlement resulting from the consolidation of backfill.

Disinfect pipelines according to SWS 4.16.0.

Water wasted from pipeline that may reach bodies of surface water may not contain any substances in concentrations that adversely affect the water as determined by the Wisconsin Administrative Code NR 105 and 106. For chlorine, no total residual chlorine may be measured in water being discharged to a surface water. Advise the Village of Bonduel of proposed discharge schedule to arrange DNR-required measurements.

Make connections to existing mains and services after all services are installed, tests passed, and safe sample report is submitted to Village of Bonduel.

Abandon existing water and appurtenances per SWS 4.14.0.

C.2 Testing

Pressure test (size) PVC Water Main before services 2-inch and smaller are installed in accordance with SWS 4.15.0.

Bacteriological testing shall be done per AWWA C651, after successful pressure test with Wisconsin DNR-certified independent laboratory. Bacteriological samples shall be taken from every 1,200 feet of water main, and one for every branch. Two consecutive sets of acceptable samples, at least 24 hours apart, shall be provided at each sample location.

C.3 Tracer Wire

Place tracer wire maximum 6 inches directly above water main. Attach with tape to water mains and services.

Do not splice between location boxes without engineer's approval except at services.

Install location boxes at every hydrant.

Demonstrate continuity of tracer wires to engineer. Provide a temporary above-ground wire between adjacent location boxes. Connect ohm meter in a series loop with tracer wire and above-ground wire. Circuit resistance shall not exceed 5 ohms.

Test locating: Contact owner at (715) 758-8779 to locate water utilities installed as a part of this project:

1. After completion of continuity test.
2. Before acceptance for use.

C.4 Fittings

Fittings shall be installed in new water mains at the locations shown on the plans. The exact location of each fitting shall be determined in the field with the engineer. This item of work shall include cleaning the exterior of the water main and interior of the fitting and disinfecting before the fitting is placed onto the water main and the Meg-A-Lug mechanical joint and the Meg-A-Lug joint restraints are secured. The exact location shall be set at the time of installation. All work shall be inspected by the engineer and the location of each fitting recorded.

Cutting pipe shall be done in a neat and workmanlike manner without causing damage to the pipe. The cut edges shall be beveled so as not to cause damage to the gasket when inserted into a fitting. All fittings shall be poly wrapped.

C.5 Insulation

Follow SWS 4.17.2 and SWS Drawing File No. 48 when requested by engineer or when depth of cover is less than 4-1/2 feet over water main.

D Measurement

The department will measure Water Main (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.0090.01	8-Inch PVC Water Main	LF
SPV.0090.06	6-Inch PVC Water Main	LF

Payment is full compensation for furnishing and installing all materials, including fittings, bedding and cover material, and backfill; excavation; testing; and disposal of excess material. Abandonment of existing water main shall be considered incidental.

41. 6-inch PVC Hydrant Lead, Item SPV.0090.02.

A Description

This work consists of excavating required trenches, removing existing hydrant lead, furnishing and laying hydrant lead of the size and class specified, furnishing and installing all joint restraints, disinfecting chemical, flushing the lead, pressure testing and continuity testing, back filling trenches and restoring the site of work, according to the requirements of the plans, the Standard Specifications and the requirements described herein.

B Materials

B.1 Pipe

Provide 6-Inch PVC Hydrant Lead pipe composed of polyvinyl chloride (PVC) pipe conforming to the requirements of AWWA C-900 and Class 150 (DR18).

B.2 Pipe Joints

Pipe joints shall be mechanical joint for all fittings and where straight pipe connects to fittings. Pipe joints may be push-on type (slip joint) on straight lengths of pipe.

New gaskets shall be provided at all joints within the replaced water main section. All gaskets shall conform to AWWA specifications and shall have the same pressure rating as the pipe or fitting of which they are a part.

Mechanical joint restraint shall be installed at all bends, plugs, wyes, tees, reducers and included in the cost bid for pipe installation. Joint restraints shall be Meg-A-Lug wedge action type joint restraints manufactured by EBAA Iron Sales or an approved equal.

B.3 Pipe Restraint

Pipe restraint shall be Meg-A-Lug wedge action type joint restraints manufactured by EBAA Iron Sales, or an owner approved equal.

C Construction

Hydrant Lead shall be installed according to Village of Bonduel Municipal Code. Comply with all applicable local, state and federal regulations.

D Measurement

The department will measure 6-inch PVC Hydrant Lead in length by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	6-Inch PVC Hydrant Lead	LF

Payment is full compensation for furnishing all materials, including all fittings, for furnishing all excavation, sheeting and shoring, dewatering if necessary; forming foundation, laying pipe, removing old pipe, sealing joints, and making connections, for testing and disinfecting; for furnishing granular backfill material; and for backfilling, removing sheeting, cleaning out and restoring site of work.

42. Horizontal Directional Drilling – 8-Inch Water Main, Item SPV.0090.04.

A Description

This special provision describes installation of a horizontal directional drilling for an 8-inch water main.

B Materials

Follow SWS 8.51.3. Pipe shall be High-Density Polyethylene (HDPE) with the following classifications:

1. Material designation: PPI PE 4710.
2. Material classification: Type III, Class C, Category 5, Grade P36.
3. Cell classification: 445574 following ASTM D3350.
4. DR 9.
5. DIPS.
6. Nominal diameter shall be 8 inches.

Acceptable manufacturers include Uponor, WL Plastics, Polypipe, Performance Pipe (Division of Chevron Phillips Chemical Company LP), JM Eagle, or an approved equal.

Fittings for polyethylene pipe shall follow ASTM F2206 AND ASTM D3261 and shall meet the following classifications:

1. Pressure class DR 9 (250 PSI):
 - a. Molded fittings: Match pipe.
 - b. Fabricated fittings: Increase pressure rating one class.
 - c. Butt fused or electrofusion.
 - d. Exposed: Molded flange adaptor with ductile iron or stainless-steel backup ring and stainless-steel bolts.
 - e. Buried: Molded mechanical restrained or joint adaptor with stainless steel internal stiffener and ductile iron or stainless-steel backup ring with Cor-Ten hardware.
2. Pipe bedding and embedment backfill: Sand, crushed limestone chips, or crushed limestone screenings. Follow SWS 6.43.0.

C Construction

C.1 Horizontal Directional Drilling (HDD)

Follow SWS Part VI for Horizontal directional drilling (HDD). Maintain copies of Material Safety Data Sheets (MSDS) at Site for drilling fluid components.

Construct berms or pits at entry and exit points to contain potential drilling fluid seepage.

Implement a boring contingency plan for responding to inadvertent release of drilling fluid (frac-out). Contractor shall:

1. Maintain adequate quantities of materials and equipment at Site, such as, but not limited to, silt fence, erosion bales, filled sandbags, plastic sheeting, excavation tools, portable pumps and hoses, absorbent pads and mud storage tanks. Maintain quantities during entire drilling-and-pipe-installation Work to allow containment isolation, cleanup, and disposal of inadvertently released drilling fluid. In addition:
 - a. Provide a vacuum truck at Site or on 24-hour call.
 - b. For water crossings, provide steel box, large-diameter pipe section, and/or silt curtain for containment within the water body.
 - c. For larger water crossings, provide a small boat for access to entire drill path.
2. Continually inspect Work along entire drill path, and drilling fluid pressure during drilling, for possible inadvertent release of drilling fluid.
3. Immediately contain and isolate entire area affected by inadvertent release of drilling fluid to minimize potential environmental impact.

4. Notify RPR, engineer, and owner as soon as inadvertent release of drilling fluid is verified to discuss containment, cleanup, and disposal.
 - a. If inadvertent release of drilling fluid is located in, or affects a water body or wetland, immediately also notify DNR.
 - b. Voicemail messages do not constitute notification, speak to a real person.
 - c. Notification list will be finalized during Preconstruction Conference.
5. Determine corrective action in drilling or pull-back procedure to prevent future release of drilling fluid. If public health or safety is threatened, stop Work immediately.
6. Clean up released drilling fluid by transporting with pump, vacuum truck, or hand to a mud storage tank or other container for disposal. Restore disturbed area.
7. If released drilling fluid is located within a water body or wetland, allow DNR to inspect contained area before starting clean-up operations. Perform cleanup according to DNR recommendations including testing upstream and downstream water as required.
8. If correction action in drilling or pull-back procedure does not eliminate further release, or if additional inadvertent releases of drilling fluid occur, abandon drill path per SWS and attempt HDD along different alignment at no additional cost to owner.

C.2 Polyethylene Pipe Joints

Butt fuse pipes and fittings following ASTM D2657 and manufacturer's recommendations.

Use molded flange adapter with ductile iron backup ring to connect to flanged pipe.

Use molded mechanical restrained joint adapter with ductile iron backup ring and cor-ten bolts to connection to mechanical joint fittings.

C.3 Polyethylene Pipe Installation

Follow ASTM D2321, manufacturer's recommendations and SWS.

Minimum bedding depth is 6 inches. Minimum embedment depth is 12 inches above top of pipe.

Compact bedding and backfill to at least 85 percent of Standard Proctor following AASHTO T-99 Density.

D Measurement

The department will measure Horizontal Directional Drilling – 8-inch Water Main by the linear foot of directional drilling, 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.0090.04	Horizontal Directional Drilling – 8-Inch Water Main	LF

Payment is full compensation for furnishing and installing all materials, including fittings, bedding and cover material, and backfill; excavation; testing; and disposal of excess material.

43. Sewer Main Spot Repair, Item SPV.0090.005.

A Description

This special provision describes the replacement of a section of sanitary sewer.

B Materials

B.1 Pipe

Furnish sanitary sewer main repair with the following:

1. Polyvinyl chloride and fittings solid wall:
1. Type PSM, Follow ASTM D3034, SDR 35.
2. Follow SWS 8.3.0 and 8.10.0.

3. Pipe to Pipe Connection:
4. Use Fernco Stainless Strong-Backed RC 5000 or RC 1000 Series Couplings or an approved equal.
5. Provide concrete support blocking underneath coupling.

B.2 Bedding, Cover, Backfill

Bedding and Cover materials: use crushed stone chips per SWS 8.43.2.

Backfill with the following one of the following:

1. Granular: Follow SWS 8.43.4.
2. Spoil: Follow SWS 8.43.5.

C Construction

C.1 Excavated Material

All surplus excavated material shall be disposed to a site of the contractor's choosing at contractor's cost.

C.2 Bedding and Cover

Follow SWS 3.2.6(b) Class B for bedding and cover.

C.3 Trench Backfilling and Consolidation

Material:

1. From 5 feet behind existing or future back-of-curb or edge-of-pavement to and including paved areas and driveways:
 - a. Granular: Follow SWS 8.43.4
2. Other areas: Spoil.
3. Around and over Underground Facilities: Follow respective owner's requirements.

Consolidation:

1. Mechanically compact trench backfill. Follow SWS 2.6.14(b) except contractor shall furnish and pay for compaction testing services that meet the following requirements
 - a. Testing firm:
 - i. Meet or exceed requirements of ASTM E329 – Standard Specification for Agencies Engaged in Construction Inspection and/or Testing.
 - ii. An agency and employees that are independent of tested material Supplier.
 - iii. A single agency for all project testing.
 - b. Testing personnel:
 - i. Trained and experienced in the necessary skills for assigned test(s) or inspection(s).
 - ii. Familiar with Contract Document requirements.
 - iii. Certified for concrete by American Concrete Institute.
 - iv. Certified for asphalt by NICET, DOT HTCP, or equivalent.

Furnish proper and safe space on Site for testing agency to perform and temporarily store test products.

C.4 Cleanup

Clean dirt and construction material from haul roads:

1. At end of each working day.
2. As needed during the day to avoid creating hazards or complaints.
3. As requested by owner.

C.5 Installation

Provide proper construction methods to prevent any wastewater from being discharged into the trench or any surrounding areas.

Follow SWS Part III sewer main installation.

Before testing, repair or replace piping, valves, fittings, structures or other parts of system which have visible defects or leakage even if leakage or pressure loss may be below allowable limits.

Go-No-Go Test: Follow SWS 3.2.6(i)4.

Televise mains and record video. Use self-propelled crawler camera. Do not use jetter-propelled camera. Follow SWS 7.1.2. Perform after pipework is installed.

D Measurement

The department will measure Sewer Main Repair by the linear foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.012	Sewer Main Spot Repair	LF

Payment is full compensation for furnishing all materials, including piping, fittings, and joints.

44. Sanitary Sewer Lateral, Item SPV.0090.07.

A Description

This special provision describes the construction of a Sanitary Sewer Lateral.

B Materials

The Sanitary Sewer Lateral shall be the same material as sanitary sewer main. Follow WS 5.3.10 and SWS 5.3.11. Diameter shall be 6-inches. Provide test tee with plugs.

Bedding, cover and backfill requirements shall be the match the requirements listed in Sewer Main Spot Repair, SPV.0090.005.B.2.

Include cleanout at the property line.

C Construction

The Sanitary Sewer Lateral shall be constructed near Station 999+50 in the Drawings; final location to be determined in the field with Engineer approval. Construct the Sanitary Sewer Lateral to the east from the sewer main to the property line. Install a cleanout at the property line.

Follow SWS Part V and provide a minimum slope of 1/4 inch per foot. Provide 2 by 6 inch hardwood marker at end of lateral from invert of lateral to 2 feet above finish grade.

All surplus excavated material shall be disposed to a site of the Contractor's choosing at Contractor's cost.

Follow SWS 3.2.6(b) Class B for bedding and cover. Trench and backfilling requirements to match requirements in SPV.0090.005.C.3. Cleanup requirement to match SPV.0090.005.C.4.

D Measurement

The department will measure Sanitary Sewer Lateral 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.0060.009	Sanitary Sewer Lateral	LF

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

45. Preparing Topsoil for Lawn Type Turf, Item SPV.0180.01.

A Description

This special provision describes preparing the bed of topsoil or salvaged topsoil, for seeding or placing sod.

B (Vacant)

C Construction

Prepare and finish the subgrade so that rocks, concrete debris, or wood larger than three inches in diameter are not present within 1 foot of the finished surface of the topsoil.

Remove or break down all clods and lumps in the topsoil by using harrows or discs, screening, or other appropriate methods to provide a uniformly textured soil, in which 100 percent of the topsoil passes a one-inch sieve and at least 90 percent passes a No. 10 sieve.

Remove rocks, twigs, clods, and other foreign material that will not break down, and dress the entire surface to present a uniform appearance.

Shape the topsoil so that the horizontal or sloped surface between any two points ten feet apart does not vary by more than one inch. Roll with a turf type roller to a uniform minimum compacted depth of 6 inches.

Shape and compact the topsoil adjacent to pavements, sidewalks, and curbs to 1 inch below the top of the abutting surface. Before seeding, correct locations that vary by more than ¼-inch.

D Measurement

The department will measure Preparing Topsoil for Lawn Type Turf 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	Preparing Topsoil for Lawn Type Turf	SY

Payment is full compensation for preparing the subgrade and topsoil bed for sod or seed as described above.

ncr-625-005 (20150430)

46. Salvaged Asphaltic Pavement Milling, Item SPV.0195.01.

A Description

This special provision describes recovering existing asphaltic pavement or surfacing, from locations the contract or the engineer specifies, and hauling and stockpiling that salvaged material.

B (Vacant)

C Construction

Salvaged Asphaltic Pavement Milling shall be completed according to standard spec 204.3.2.2.2.

Unless the contract specifies otherwise, material in excess and not incorporated in the work under the Salvaged Asphaltic Pavement Base bid item becomes the contractor's property.

Partial Depth Salvaging

Under the Salvaged Asphaltic Pavement Milling bid item, remove the existing asphaltic pavement or surfacing partial-depth. Provide a uniform milled surface that is reasonably plane, free of excessively large scarification marks, and has the grade and transverse slope as the plans show or the engineer directs. Do not damage the remaining pavement.

Use a self-propelled milling machine with depth, grade, and slope controls. Shroud the drum to prevent discharging loosened material into adjacent work areas or living traffic lanes. Provide an engineer-approved dust control system.

Maintain one lane of traffic during working hours. Unless using a continuous removal and pick-up operation, do not windrow or store material on the roadway. Clear the roadway of all materials and equipment during non-working hours. Grade shoulders adjacent to milled areas by the end of each work day to provide positive drainage of the pavement. Do not allow abrupt longitudinal differences of 2 inches or more between lanes during non-working hours. The engineer may waive one or more of these requirements if the highway is closed to traffic or if a particular operation does not endanger traffic.

D Measurement

The department will measure Salvaged Asphaltic Pavement Milling by the ton, acceptably completed.

For measurement by the ton, the department will determine weight based on contractor-provided tickets submitted daily. Submit a ticket for each load showing the material, net weight, date, and project ID. For small quantities, the engineer may measure the volume in the truck and convert to a weight as allowed under standard spec 109.1.4.

The department will make no deductions from the volume measured under the Excavation bid items for pavement removed full-depth under the Salvaged Asphaltic Pavement bid item.

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	Salvaged Asphaltic Pavement Milling	TON

Payment for Salvaged Asphaltic Pavement Milling is full compensation for partial-depth salvaging, and for hauling and stockpiling the salvaged material.

47. Salvaged Asphaltic Pavement Base, Item SPV.0195.02.

A Description

This section describes constructing a dense graded aggregate base, using department-furnished material recovered from under the Salvaged Asphaltic Pavement Milling bid items from existing asphaltic pavement or surfacing located within the project limits.

B Materials

Furnish material with 100 percent passing a 1 1/4-inch sieve. For shouldering applications, provide reprocessed material or blended material containing between 45 and 55 percent salvaged asphaltic pavement or surfacing, by weight.

C Construction

Process stockpiled material as necessary to conform to standard spec 305.2 and place material as the plans or special provisions specify. Construct the base conforming to standard spec 305.3.

Excess material recovered from within the project limits under the Salvaged Asphaltic Pavement Milling bid item becomes the contractor's property.

D Measurement

The department will measure the Salvaged Asphaltic Pavement Base by the ton, acceptably completed. The department will determine weight or volume, adjust for moisture, and convert between weight and volume as specified in standard spec 301.4. The department may deduct for contaminated aggregate or unrecovered aggregate deposited outside the outer shoulder limits

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.02	Salvaged Asphaltic Pavement Base	TON

Payment is full compensation for processing to size; for preparing the foundation; and for placing, compacting, shaping, and maintaining the base. The department will pay for EBS in areas of placed base, and compaction water as specified in standard spec 301.5.

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:

416.2.4 Concrete Pavement Repair and Replacement

Replace the entire text with the following effective with the November 2022 letting:

- (1) Except as specified in 416.3.6 for inlaid rumble strips, use grade C concrete as specified in 501.
- (2) The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi.

416.2.5 Special High Early Strength Concrete Pavement Repair and Replacement

416.2.5.1 Composition and Proportioning of Concrete

Replace paragraph one with the following effective with the November 2022 letting:

- (1) For the concrete mixture, use a minimum of 846 pounds of cementitious material per cubic yard of concrete. The engineer will allow the contractor to open to construction and public traffic when the concrete reaches 2000 psi. The contractor may add one or a combination of admixtures to the ingredients or to the mixture in order to obtain the required minimum strength and required air content. Do not retemper the concrete mixture.

455.2.4.3 Emulsified Asphalts

Replace paragraph one with the following effective with the November 2022 letting:

- (1) Furnish material conforming, before dilution, to the following:
 - Anionic emulsified asphalts^[1]..... AASHTO M140
 - Cationic emulsified asphalts^[1] AASHTO M208
 - Polymer-modified cationic emulsified asphalts AASHTO M316
- ^[1] Non-tracking emulsified asphalts shall conform to TABLE 455-1 for the type and grade specified.

TABLE 455-1 Requirements for Non-Tracking Emulsified Asphalt

PRODUCT	ANTT	CNTT
Saybolt Viscosity at 77°F (25°C), (AASHTO T 59), SFS	15-100	15-100
Paddle Viscosity at 77°F (25°C), (AASHTO T 382), cPs ^[1]	30-200	30-200
Storage Stability Test, 24 hr, (AASHTO T 59), %	1 max	1 max
Residue by Distillation, 500 ± 10 °F (260 ± 5 °C), or Residue by Evaporation, 325 ± 5 °F (163 ± 3 °C), (AASHTO T 59), %	50 min	50 min
Sieve Test, No. 20 (850 µm), (AASHTO T 59), %	0.3	0.3
Penetration at 77°F (25°C), 100 g, 5 sec, (AASHTO T 49), dmm	10-40	10-40
Ash Content, (AASHTO T 111), %	1 max	1 max
Solubility in Trichlorethylene Test, (AASHTO T 44) ^[2]	97.5% min	97.5% min

^[1] Paddle Viscosity (AASHTO T 382) may be run in lieu of Saybolt Viscosity (AASHTO T 59).
^[2] The solubility in Trichlorethylene test (AASHTO T 44) may be run in lieu of Ash Content (AASHTO T 111).

455.2.5 Tack Coat

Replace paragraph one with the following effective with the November 2022 letting:

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

710.5.7 Corrective Action

710.5.7.1 Optimized Aggregate Gradations

Replace paragraph one with the following effective with the November 2022 letting:

- (1) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by less than or equal to 1.0 percent on a single sieve size, notify the other party immediately and do one of the following:
 - Perform corrective action documented in the QC plan or as the engineer approves. Continue with the following:
 1. Document and provide corrective action results to the engineer as soon as they are available.
 2. Department will conduct two tests within the next business day after corrective action is complete.
 - If blended aggregate gradations are within the tarantula curve limits by the second department test:
 - Continue with concrete production.
 - Include a break in the 4-point running average.
 - For Class I Pavements: The department will discontinue reduced frequency testing and will test at a frequency of 1 test per placement day. Once 5 consecutive samples are passing at the 1 test per placement day frequency, the reduced frequency testing will be reapplied.
 - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract requires an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit a new optimized aggregate gradation mix design.
 - If blended aggregate gradations are not within the tarantula curve limits by the second department test and the contract does not require an optimized aggregate gradation mix under 501.2.7.4.2.1(2), stop concrete production and submit either a new optimized aggregate gradation mix design or a combined aggregate gradation mix design.
 - Submit a new optimized aggregate gradation mix design and perform the following:
 1. Restart control charts for the new mix design.
 2. Amend contractor Quality Control Plan

715.5 Payment

Replace the entire text with the following effective with the November 2022 letting:

715.5.1 General

- (1) The department will pay incentive for concrete strength under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
715.0502	Incentive Strength Concrete Structures	DOL
715.0603	Incentive Strength Concrete Barrier	DOL
715.0715	Incentive Flexural Strength Concrete Pavement	DOL
715.0720	Incentive Compressive Strength Concrete Pavement	DOL

- (2) Incentive payment may be more or less than the amount the schedule of items shows.
- (3) The department will administer disincentives for strength under the Disincentive Strength Concrete Structures, Disincentive Strength Concrete Barrier, Disincentive Flexural Strength Concrete Pavement, and Disincentive Compressive Strength Concrete Pavement, administrative items.
- (4) The department will adjust pay for each lot using PWL of the 28-day subplot average strengths for that lot. The department will measure PWL relative to strength lower specification limits as follows:
 - Compressive strength of 3700 psi for pavements.
 - Flexural strength of 650 psi for pavements.
 - Compressive strength of 4000 psi for structures and barrier.
- (5) The department will not pay a strength incentive for concrete that is nonconforming in another specified property, for ancillary concrete accepted based on tests of class I concrete, or for high early strength concrete unless placed in pavement gaps as allowed under 715.3.1.2.2.
- (6) Submit test results to the department electronically using MRS software. The department will verify contractor data before determining pay adjustments.
- (7) All coring and testing costs under 715.3.2.2 including filling core holes and providing traffic control during coring are incidental to the contract.

715.5.2 Pavements

715.5.2.1 Compressive

- (1) The department will adjust pay for each lot using equation “QMP 3.01” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 95 to 100	$(0.1 \times \text{PWL}) - 9.5$
>= 85 to < 95	0
>= 30 to < 85	$(1.5/55 \times \text{PWL}) - 127.5/55$
< 30	-1.50

- (2) The department will not pay incentive if the lot standard deviation is greater than 400 psi compressive.
- (3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 3700 psi compressive by \$1.50 per square yard.
- (4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

715.5.2.2 Flexural

- (1) The department will adjust pay for each lot using equation “QMP 6.02” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 95 to 100	$(0.2 \times \text{PWL}) - 19$
>= 85 to < 95	0
>= 50 to < 85	$(2.0/35 \times \text{PWL}) - 170/35$
< 50	-2.00

- (2) The department will not pay incentive if the lot standard deviation is greater than 60 psi flexural.
- (3) For lots with a full battery of QC tests at less than 4 locations, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 650 psi flexural by \$2.00 per square yard.
- (4) For integral shoulder pavement and pavement gaps accepted using tests from the adjacent travel lane, the department will adjust pay using strength results of the travel lane for integrally placed concrete shoulders and pavement gaps regardless of mix design and placement method, included in a lane-foot lot.

715.5.3 Structures and Cast-in-Place Barrier

- (1) The department will adjust pay for each lot using equation “QMP 2.01” as follows:

Percent within Limits (PWL)	Pay Adjustment (dollars per square yard)
>= 99 to 100	10
>= 90 to < 99	0
>= 50 to < 90	$(7/8 \times \text{PWL}) - 78.75$
< 50	-35

- (2) The department will not pay incentive if the lot standard deviation is greater than 350 psi.
- (3) For lots with less than 4 sublots, there is no incentive, but the department will assess a disincentive based on the individual subplot average strengths. The department will reduce pay for sublots with an average strength below 4000 psi by \$35 per cubic yard.

ADDITIONAL SPECIAL PROVISION 7

A. Reporting 1st Tier and DBE Payments During Construction

1. Comply with reporting requirements specified in the department's Civil Rights Compliance, Contractor's User Manual, Sublets and Payments.
2. Report payments to all DBE firms within 10 calendar days of receipt of a progress payment by the department or a contractor for work performed, materials furnished, or materials stockpiled by a DBE firm. Report the payment as specified in A(1) for all work satisfactorily performed and for all materials furnished or stockpiled.
3. Report payments to all first tier subcontractor relationships within 10 calendar days of receipt of a progress payment by the department for work performed. Report the payment as specified in A(1) for all work satisfactorily performed.
4. All tiers shall report payments as necessary to comply with the DBE payment requirement as specified in A(2).
5. 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 within 5 days of payment receipt to be logged manually.

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

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

ADDITIONAL SPECIAL PROVISION 9

Electronic Certified Payroll or Labor Data Submittal

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

NON-DISCRIMINATION PROVISIONS

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

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

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

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

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

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

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

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

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

Pertinent Non-Discrimination Authorities:

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

BUY AMERICA PROVISION

Buy America (as documented in M-22-11 from the Office of Management and Budget: <https://www.whitehouse.gov/wp-content/uploads/2022/04/M-22-11.pdf>) shall be domestic products and permanently incorporated in this project as classified in the following three categories, and as noted in the Construction and Materials Manual (CMM):

1. Iron and Steel

All iron and steel manufacturing and coating processes (from smelting forward in the manufacturing process) must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America.

The exemption of the iron and steel manufacturing and coating processes Buy America requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or \$2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project.

2. Manufactured Product

All manufactured products (as defined in CMM 228.5) are covered under a previous waiver from 1983, and are currently exempt from Buy America.

3. Construction Material

All construction materials (as defined in OMB M-22-11 and as referenced in CMM 228.5) must comply with Buy America. No exemptions (0.0%) are allowed.

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

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

Upon completion of the project, certify to the engineer, in writing using department form DT4567 that all iron and steel, manufactured products, and construction materials conform to this Buy America provision.

Form DT4567 is available at: <https://wisconsindot.gov/Documents/formdocs/dt4567.docx>

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



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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	204.0115 Removing Asphaltic Surface Butt Joints	1,220.000 SY	_____.	_____.
0004	204.0120 Removing Asphaltic Surface Milling	13,475.000 SY	_____.	_____.
0006	204.0150 Removing Curb & Gutter	5,555.000 LF	_____.	_____.
0008	204.0155 Removing Concrete Sidewalk	1,600.000 SY	_____.	_____.
0010	204.0185 Removing Masonry	2.000 CY	_____.	_____.
0012	204.0195 Removing Concrete Bases	10.000 EACH	_____.	_____.
0014	204.0220 Removing Inlets	2.000 EACH	_____.	_____.
0016	204.0245 Removing Storm Sewer (size) 01. 12-Inch	60.000 LF	_____.	_____.
0018	205.0100 Excavation Common	10,450.000 CY	_____.	_____.
0020	210.1100 Backfill Structure Type A	3.000 CY	_____.	_____.
0022	211.0101 Prepare Foundation for Asphaltic Paving (project) 01. 9220-04-72	1.000 EACH	_____.	_____.
0024	213.0100 Finishing Roadway (project) 01. 9220-04-72	1.000 EACH	_____.	_____.
0026	213.0100 Finishing Roadway (project) 01. 9220-04-82	1.000 EACH	_____.	_____.
0028	305.0110 Base Aggregate Dense 3/4-Inch	375.000 TON	_____.	_____.
0030	305.0120 Base Aggregate Dense 1 1/4-Inch	8,900.000 TON	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0032	416.0160 Concrete Driveway 6-Inch	1,170.000 SY	_____.	_____.
0034	455.0605 Tack Coat	455.000 GAL	_____.	_____.
0036	460.2000 Incentive Density HMA Pavement	4,730.000 DOL	1.00000	4,730.00
0038	460.6223 HMA Pavement 3 MT 58-28 S	4,175.000 TON	_____.	_____.
0040	460.6224 HMA Pavement 4 MT 58-28 S	1,590.000 TON	_____.	_____.
0042	460.6424 HMA Pavement 4 MT 58-28 H	1,625.000 TON	_____.	_____.
0044	465.0120 Asphaltic Surface Driveways and Field Entrances	30.000 TON	_____.	_____.
0046	504.0500 Concrete Masonry Retaining Walls	3.000 CY	_____.	_____.
0048	516.0500 Rubberized Membrane Waterproofing	2.000 SY	_____.	_____.
0050	520.1018 Apron Endwalls for Culvert Pipe 18-Inch	2.000 EACH	_____.	_____.
0052	520.3418 Culvert Pipe Class III-A Non-metal 18-Inch	34.000 LF	_____.	_____.
0054	601.0411 Concrete Curb & Gutter 30-Inch Type D	5,675.000 LF	_____.	_____.
0056	601.0600 Concrete Curb Pedestrian	260.000 LF	_____.	_____.
0058	602.0405 Concrete Sidewalk 4-Inch	16,675.000 SF	_____.	_____.
0060	602.0415 Concrete Sidewalk 6-Inch	1,360.000 SF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0062	602.0505 Curb Ramp Detectable Warning Field Yellow	335.000 SF	_____.	_____.
0064	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	95.000 SF	_____.	_____.
0066	602.1500 Concrete Steps	32.000 SF	_____.	_____.
0068	602.2400 Concrete Safety Islands	240.000 SF	_____.	_____.
0070	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	60.000 LF	_____.	_____.
0072	611.0430 Reconstructing Inlets	18.000 EACH	_____.	_____.
0074	611.0530 Manhole Covers Type J	17.000 EACH	_____.	_____.
0076	611.0540 Manhole Covers Type K	1.000 EACH	_____.	_____.
0078	611.0600 Inlet Covers Type A	3.000 EACH	_____.	_____.
0080	611.0624 Inlet Covers Type H	8.000 EACH	_____.	_____.
0082	611.0627 Inlet Covers Type HM	5.000 EACH	_____.	_____.
0084	611.0639 Inlet Covers Type H-S	4.000 EACH	_____.	_____.
0086	611.2004 Manholes 4-FT Diameter	3.000 EACH	_____.	_____.
0088	611.3230 Inlets 2x3-FT	2.000 EACH	_____.	_____.
0090	611.8110 Adjusting Manhole Covers	7.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0092	611.9705 Salvaged Manhole Covers	4.000 EACH	_____.	_____.
0094	618.0100 Maintenance And Repair of Haul Roads (project) 01. 9220-04-72	1.000 EACH	_____.	_____.
0096	619.1000 Mobilization	1.000 EACH	_____.	_____.
0098	620.0300 Concrete Median Sloped Nose	50.000 SF	_____.	_____.
0100	624.0100 Water	280.000 MGAL	_____.	_____.
0102	625.0100 Topsoil	4,775.000 SY	_____.	_____.
0104	628.1905 Mobilizations Erosion Control	3.000 EACH	_____.	_____.
0106	628.1910 Mobilizations Emergency Erosion Control	3.000 EACH	_____.	_____.
0108	628.2006 Erosion Mat Urban Class I Type A	4,775.000 SY	_____.	_____.
0110	628.7005 Inlet Protection Type A	8.000 EACH	_____.	_____.
0112	628.7015 Inlet Protection Type C	39.000 EACH	_____.	_____.
0114	628.7504 Temporary Ditch Checks	30.000 LF	_____.	_____.
0116	630.0140 Seeding Mixture No. 40	87.000 LB	_____.	_____.
0118	630.0500 Seed Water	126.000 MGAL	_____.	_____.
0120	634.0614 Posts Wood 4x6-Inch X 14-FT	8.000 EACH	_____.	_____.
0122	637.2210 Signs Type II Reflective H	94.000 SF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0124	638.2102 Moving Signs Type II	5.000 EACH	_____.	_____.
0126	642.5201 Field Office Type C	1.000 EACH	_____.	_____.
0128	643.0300 Traffic Control Drums	6,000.000 DAY	_____.	_____.
0130	643.0410 Traffic Control Barricades Type II	420.000 DAY	_____.	_____.
0132	643.0420 Traffic Control Barricades Type III	800.000 DAY	_____.	_____.
0134	643.0705 Traffic Control Warning Lights Type A	350.000 DAY	_____.	_____.
0136	643.0715 Traffic Control Warning Lights Type C	450.000 DAY	_____.	_____.
0138	643.0900 Traffic Control Signs	17,500.000 DAY	_____.	_____.
0140	643.0910 Traffic Control Covering Signs Type I	12.000 EACH	_____.	_____.
0142	643.0920 Traffic Control Covering Signs Type II	11.000 EACH	_____.	_____.
0144	643.1000 Traffic Control Signs Fixed Message	306.000 SF	_____.	_____.
0146	643.3105 Temporary Marking Line Paint 4-Inch	360.000 LF	_____.	_____.
0148	643.3150 Temporary Marking Line Removable Tape 4-Inch	12,320.000 LF	_____.	_____.
0150	643.3850 Temporary Marking Stop Line Removable Tape 18-Inch	99.000 LF	_____.	_____.
0152	643.5000 Traffic Control	1.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0154	644.1410 Temporary Pedestrian Surface Asphalt	505.000 SF	_____.	_____.
0156	644.1430 Temporary Pedestrian Surface Plate	505.000 SF	_____.	_____.
0158	644.1440 Temporary Pedestrian Surface Matting	505.000 SF	_____.	_____.
0160	644.1601 Temporary Pedestrian Curb Ramp	420.000 DAY	_____.	_____.
0162	644.1810 Temporary Pedestrian Barricade	1,600.000 LF	_____.	_____.
0164	646.1020 Marking Line Epoxy 4-Inch	19,200.000 LF	_____.	_____.
0166	646.3020 Marking Line Epoxy 8-Inch	1,400.000 LF	_____.	_____.
0168	646.5020 Marking Arrow Epoxy	18.000 EACH	_____.	_____.
0170	646.5120 Marking Word Epoxy	3.000 EACH	_____.	_____.
0172	646.6120 Marking Stop Line Epoxy 18-Inch	115.000 LF	_____.	_____.
0174	646.7020 Marking Diagonal Epoxy 6-Inch	250.000 LF	_____.	_____.
0176	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	1,550.000 LF	_____.	_____.
0178	646.8120 Marking Curb Epoxy	50.000 LF	_____.	_____.
0180	646.8320 Marking Parking Stall Epoxy	350.000 LF	_____.	_____.
0182	646.9000 Marking Removal Line 4-Inch	1,725.000 LF	_____.	_____.
0184	646.9200 Marking Removal Line Wide	425.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0186	650.4000 Construction Staking Storm Sewer	1.000 EACH	_____.	_____.
0188	650.4500 Construction Staking Subgrade	3,250.000 LF	_____.	_____.
0190	650.5000 Construction Staking Base	3,250.000 LF	_____.	_____.
0192	650.5500 Construction Staking Curb Gutter and Curb & Gutter	5,675.000 LF	_____.	_____.
0194	650.6000 Construction Staking Pipe Culverts	1.000 EACH	_____.	_____.
0196	650.8000 Construction Staking Resurfacing Reference	2,565.000 LF	_____.	_____.
0198	650.8501 Construction Staking Electrical Installations (project) 01. 9220-04-72	1.000 EACH	_____.	_____.
0200	650.9000 Construction Staking Curb Ramps	38.000 EACH	_____.	_____.
0202	650.9500 Construction Staking Sidewalk (project) 01. 9220-04-72	1.000 EACH	_____.	_____.
0204	650.9911 Construction Staking Supplemental Control (project) 01. 9220-04-72	1.000 EACH	_____.	_____.
0206	650.9920 Construction Staking Slope Stakes	6,450.000 LF	_____.	_____.
0208	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	669.000 LF	_____.	_____.
0210	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	955.000 LF	_____.	_____.
0212	652.0800 Conduit Loop Detector	1,028.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0214	653.0164 Pull Boxes Non-Conductive 24x42-Inch	15.000 EACH	_____.	_____.
0216	653.0905 Removing Pull Boxes	4.000 EACH	_____.	_____.
0218	654.0101 Concrete Bases Type 1	3.000 EACH	_____.	_____.
0220	654.0102 Concrete Bases Type 2	7.000 EACH	_____.	_____.
0222	654.0217 Concrete Control Cabinet Bases Type 9 Special	1.000 EACH	_____.	_____.
0224	655.0230 Cable Traffic Signal 5-14 AWG	938.000 LF	_____.	_____.
0226	655.0250 Cable Traffic Signal 9-14 AWG	872.000 LF	_____.	_____.
0228	655.0260 Cable Traffic Signal 12-14 AWG	985.000 LF	_____.	_____.
0230	655.0305 Cable Type UF 2-12 AWG Grounded	709.000 LF	_____.	_____.
0232	655.0515 Electrical Wire Traffic Signals 10 AWG	1,105.000 LF	_____.	_____.
0234	655.0610 Electrical Wire Lighting 12 AWG	488.000 LF	_____.	_____.
0236	655.0700 Loop Detector Lead In Cable	2,303.000 LF	_____.	_____.
0238	655.0800 Loop Detector Wire	3,362.000 LF	_____.	_____.
0240	656.0201 Electrical Service Meter Breaker Pedestal (location) 01. STH 117 & CTH BE	1.000 EACH	_____.	_____.
0242	657.0100 Pedestal Bases	3.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0244	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	7.000 EACH	_____.	_____.
0246	657.0305 Poles Type 2	3.000 EACH	_____.	_____.
0248	657.0310 Poles Type 3	1.000 EACH	_____.	_____.
0250	657.0315 Poles Type 4	3.000 EACH	_____.	_____.
0252	657.0410 Traffic Signal Standards Aluminum 9-FT	1.000 EACH	_____.	_____.
0254	657.0420 Traffic Signal Standards Aluminum 13-FT	2.000 EACH	_____.	_____.
0256	657.0595 Trombone Arms 25-FT	4.000 EACH	_____.	_____.
0258	657.0609 Luminaire Arms Single Member 4-Inch Clamp 6-FT	4.000 EACH	_____.	_____.
0260	658.0173 Traffic Signal Face 3S 12-Inch	12.000 EACH	_____.	_____.
0262	658.0416 Pedestrian Signal Face 16-Inch	8.000 EACH	_____.	_____.
0264	658.0500 Pedestrian Push Buttons	8.000 EACH	_____.	_____.
0266	658.5070 Signal Mounting Hardware (location) 01. STH 117 & CTH BE	1.000 EACH	_____.	_____.
0268	659.1115 Luminaires Utility LED A	4.000 EACH	_____.	_____.
0270	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor 01. STH 117 & CTH BE	44.000 EACH	_____.	_____.
0272	690.0150 Sawing Asphalt	608.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20230912013 Project(s): 9220-04-72, 9220-04-82

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
0274	690.0250 Sawing Concrete	725.000 LF	_____.	_____.
0276	740.0440 Incentive IRI Ride	4,383.000 DOL	1.00000	4,383.00
0278	SPV.0030 Special 01. Fertilizer for Lawn Type Turf	3.050 CWT	_____.	_____.
0280	SPV.0060 Special 01. Hydrant Assembly	5.000 EACH	_____.	_____.
0282	SPV.0060 Special 02. Water Valve 8-Inch	13.000 EACH	_____.	_____.
0284	SPV.0060 Special 03. 1-Inch Curb Stop and Box	22.000 EACH	_____.	_____.
0286	SPV.0060 Special 04. 1-Inch Tap and Corporation Valve	22.000 EACH	_____.	_____.
0288	SPV.0060 Special 06. Adjust Sanitary Manhole	6.000 EACH	_____.	_____.
0290	SPV.0060 Special 07. Removing Valve Boxes	4.000 EACH	_____.	_____.
0292	SPV.0060 Special 08. Adjust Water Valve Box	13.000 EACH	_____.	_____.
0294	SPV.0060 Special 09. Water Main Vertical Offset	1.000 EACH	_____.	_____.
0296	SPV.0060 Special 10. Water Service Vertical Offset	2.000 EACH	_____.	_____.
0298	SPV.0060 Special 11. Air Release Valve Assembly	1.000 EACH	_____.	_____.
0300	SPV.0060 Special 12. Research and Locate Existing Land Parcel Monuments	100.000 EACH	_____.	_____.
0302	SPV.0060 Special 13. Verify and Replace Existing Land Parcel Monuments	100.000 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
0304	SPV.0060 Special 14. Salvage Traffic Signals STH 117 & CTH BE Intersection	1.000 EACH	_____.	_____.
0306	SPV.0060 Special 15. Repair and Regrout Structures	5.000 EACH	_____.	_____.
0308	SPV.0060 Special 16. Storm Main Crossing	1.000 EACH	_____.	_____.
0310	SPV.0060 Special 17. Internal-External Sanitary Manhole Seal	6.000 EACH	_____.	_____.
0312	SPV.0090 Special 01. 8-Inch PVC Water Main	2,700.000 LF	_____.	_____.
0314	SPV.0090 Special 02. 6-Inch PVC Hydrant Lead	134.000 LF	_____.	_____.
0316	SPV.0090 Special 03. 1-Inch Water Service Pipe	698.000 LF	_____.	_____.
0318	SPV.0090 Special 04. Horizontal Directional Drilling - 8-Inch Water Main	30.000 LF	_____.	_____.
0320	SPV.0090 Special 05. Sewer Main Spot Repair	10.000 LF	_____.	_____.
0322	SPV.0090 Special 06. 6-inch PVC Water Main	10.000 LF	_____.	_____.
0324	SPV.0090 Special 07. Sanitary Sewer Lateral	50.000 LF	_____.	_____.
0326	SPV.0180 Special 01. Preparing Topsoil for Lawn Type Turf	4,775.000 SY	_____.	_____.
0328	SPV.0195 Special 01. Salvaged Asphaltic Pavement Milling	7,150.000 TON	_____.	_____.
0330	SPV.0195 Special 02. Salvaged Asphaltic Pavement Base	7,150.000 TON	_____.	_____.
Section: 0001			Total:	_____.

Total Bid: _____.

PLEASE ATTACH ADDENDA HERE