HIGHWAY WORK PROPOSAL

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

Proposal Number: 001

COUNTY	STATE PROJECT	FEDERAL	PROJECT DESCRIPTION	HIGHWAY
Dane	3080-01-40	N/A	Madison - Cambridge; Cth Ab Overpass	USH 012
Dane	3080-01-75	WISC 2022450	Madison - Cambridge; Cth Ab Overpass	USH 012
Dane	3080-01-76	WISC 2022451	Madison - Cambridge; Cth Ab Interchange	USH 012

ADDENDUM REQUIRED

ATTACHED AT BACK

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

Proposal Guaranty Required: $730,000.00 Payable to: Wisconsin Department of Transportation	Attach Proposal Guaranty on back of this PAGE.
Bid Submittal Date: July 12, 2022 Time (Local Time): 11:00 am	Firm Name, Address, City, State, Zip Code SAMPLE NOT FOR BIDDING PURPOSES
Contract Completion Time December 15, 2023	
Assigned Disadvantaged Business Enterprise Goal 5%	This contract is exempt from federal oversight.

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

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

Subscribed and sworn to before me this date _____

(Signature, Notary Public, State of Wisconsin)

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

(Date Commission Expires)

Notary Seal

(Bidder Signature)

(Print or Type Bidder Name)

(Bidder Title)

For Department Use Only	
Type of Work: Excavation Common, Marsh Excavation, Base, HMA Pavement, Asphaltic Surface, Curb and Gutter, Concrete Pavement, Sidewalk, Signs, Beam Guard, Pavement Marking, Culvert Pipes, Storm Sewer, Street Lighting, Bridge Construction, Retaining Walls, Sanitary Sewer, Water Main, Fiber Optic, Sign Structures, Fencing	
Notice of Award Dated	Date Guaranty Returned

PLEASE ATTACH
PROPOSAL GUARANTY HERE

Effective with November 2007 Letting

PROPOSAL REQUIREMENTS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

Effective with August 2015 Letting

BID PREPARATION

Preparing the Proposal Schedule of Items

A General

(1) Obtain bidding proposals as specified in section 102 of the standard specifications prior to 11:45 AM of the last business day preceding the letting. Submit bidding proposals using one of the following methods:

1. Electronic bid on the internet.
2. Electronic bid on a printout with accompanying diskette or CD ROM.
3. Paper bid under a waiver of the electronic submittal requirements.

(2) Bids submitted on a printout with accompanying diskette or CD ROM or paper bids submitted under a waiver of the electronic submittal requirements govern over bids submitted on the internet.

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

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

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

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

(5) The department will address equipment and process failures, if the bidder can demonstrate that those failures were beyond their control.

(6) Contractors are responsible for checking on the issuance of addenda and for obtaining the addenda. Notice of issuance of addenda is posted on the department's web site at:
https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

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

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

B Submitting Electronic Bids

B.1 On the Internet

(1) Do the following before submitting the bid:

1. Have a properly executed annual bid bond on file with the department.

2. Have a digital ID on file with and enabled by Info Tech Inc. Using this digital ID will constitute the bidder's signature for proper execution of the bidding proposal.

(2) In lieu of preparing, delivering, and submitting the proposal as specified in 102.6 and 102.9 of the standard specifications, submit the proposal on the internet as follows:

1. Download the latest schedule of items reflecting all addenda from the Bid Express™ web site.
2. Use Expedite™ software to enter a unit price for every item in the schedule of items.
3. Submit the bid according to the requirements of Expedite™ software and the Bid Express™ web site. Do not submit a bid on a printout with accompanying diskette or CD ROM or a paper bid. If the bidder does submit a bid on a printout with accompanying diskette or a paper bid in addition to the internet submittal, the department will disregard the internet bid.
4. Submit the bid before the hour and date the Notice to Contractors designates.
5. Do not sign, notarize, and return the bidding proposal described in 102.2 of the standard specifications.

(3) The department will not consider the bid accepted until the hour and date the Notice to Contractors designates.

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

(1) Download the latest schedule of items from the Wisconsin pages of the Bid Express™ web site reflecting the latest addenda posted on the department's web site at:
https://wisconsindot.gov/Pages/doing-bus/contractors/hcci/bid-let.aspx

Use Expedite ™ software to prepare and print the schedule of items. Provide a valid amount for all price fields. Follow instructions and review the help screens provided on the Bid Express™ web site to assure that the schedule of items is prepared properly.

(2) Staple an 8 1/2 by 11 inch printout of the Expedite™ generated schedule of items to the other proposal documents submitted to the department as a part of the bidder's sealed bid. As a separate submittal, not in the sealed bid envelop but due at the same time and place as the sealed bid, also provide the Expedite™ generated schedule of items on a 3 1/2 inch computer diskette or CD ROM. Label each diskette or CD ROM with the bidder's name, the 4 character department-assigned bidder identification code from the top of the bidding proposal, and a list of the proposal numbers included on that diskette or CD ROM as indicated in the following example:

Bidder Name

BN00

Proposals: 1, 12, 14, & 22

(3) If bidding on more than one proposal in the letting, the bidder may include all proposals for that letting on one diskette or CD ROM. Include only submitted proposals with no incomplete or other files on the diskette or CD ROM.

(4) The bidder-submitted printout of the Expedite™ generated schedule of items is the governing contract document and must conform to the requirements of section 102 of the standard specifications. If a printout needs to be altered, cross out the printed information with ink or typewriter and enter the new information and initial it in ink. If there is a discrepancy between the printout and the diskette or CD ROM, the department will analyze the bid using the printout information.

(5) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:

1. The check code printed on the bottom of the printout of the Expedite™ generated schedule of items is not the same on each page.
2. The check code printed on the printout of the Expedite™ generated schedule of items is not the same as the check code for that proposal provided on the diskette or CD ROM.

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

C Waiver of Electronic Submittal

(1) The bidder may request a waiver of the electronic submittal requirements. Submit a written request for a waiver in lieu of bids submitted on the internet or on a printout with accompanying diskette or CD ROM. Use the waiver that was included with the paper bid document sent to the bidder or type up a waiver on the bidder's letterhead. The department will waive the electronic submittal requirements for a bidding entity (individual, partnership, joint venture, corporation, or limited liability company) for up to 4 individual proposals in a calendar year. The department may allow additional waivers for equipment malfunctions.

(2) Submit a schedule of items on paper conforming to section 102 of the standard specifications. The department charges the bidder a $75 administrative fee per proposal, payable at the time and place the department designates for receiving bids, to cover the costs of data entry. The department will accept a check or money order payable to: "Wisconsin, Dept. of Transportation."

(3) In addition to the reasons specified in section 102 of the standard specifications, proposals are irregular and the department may reject them for one or more of the following:

1. The bidder fails to provide the written request for waiver of the electronic submittal requirements.
2. The bidder fails to pay the $75 administrative fee before the time the department designates for the opening of bids unless the bidder requests on the waiver that they be billed for the $75.
3. The bidder exceeds 4 waivers of electronic submittal requirements within a calendar year.

(4) In addition to the reasons specified in section 102 of the standard specifications, the department may refuse to issue bidding proposals for future contracts to a bidding entity that owes the department administrative fees for a waiver of electronic submittal requirements.

PROPOSAL BID BOND

Wisconsin Department of Transportation

DT1303 1/2006

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

Wisconsin Department of Transportation

DT1305 8/2003

Time Period Valid (From/To)
Name of Surety
Name of Contractor
Certificate Holder Wisconsin Department of Transportation

This is to certify that an annual bid bond issued by the above-named Surety is currently on file with the Wisconsin Department of Transportation.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the annual bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing surety will give thirty (30) days written notice to the certificate holder indicated above.

(Signature of Authorized Contractor Representative) (Date)

March 2010

LIST OF SUBCONTRACTORS

Section 66.0901(7), Wisconsin Statutes, provides that as a part of the proposal, the bidder also shall submit a list of the subcontractors the bidder proposes to contract with and the class of work to be performed by each. In order to qualify for inclusion in the bidder's list a subcontractor shall first submit a bid in writing, to the general contractor at least 48 hours prior to the time of the bid closing. The list may not be added to or altered without the written consent of the municipality. A proposal of a bidder is not invalid if any subcontractor and the class of work to be performed by the subcontractor has been omitted from a proposal; the omission shall be considered inadvertent or the bidder will perform the work personally.

No subcontract, whether listed herein or later proposed, may be entered into without the written consent of the Engineer as provided in Subsection 108.1 of the Standard Specifications.

Name of Subcontractor	Class of Work	Estimated Value

DECEMBER 2000

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS - PRIMARY COVERED TRANSACTIONS

Instructions for Certification

1. By signing and submitting this proposal, the prospective contractor is providing the certification set out below.

2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective contractor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective contractor to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

3. The certification in this clause is a material representation of fact upon which reliance was placed when the department determined to enter into this transaction. If it is later determined that the contractor knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government the department may terminate this transaction for cause or default.

4. The prospective contractor shall provide immediate written notice to the department to whom this proposal is submitted if at any time the prospective contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department to which this proposal is being submitted for assistance in obtaining a copy of those regulations.

6. The prospective contractor agrees by submitting this proposal that, should this contract be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department entering into this transaction.

7. The prospective contractor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," which is included as an addendum to PR-1273 - "Required Contract Provisions Federal Aid Construction Contracts," without

modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. The contractor may rely upon a certification of a prospective subcontractor/materials supplier that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A contractor may decide the method and frequency by which it determines the eligibility of its principals. Each contractor may, but is not required to, check the Disapproval List (telephone # 608/266/1631).

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph 6 of these instructions, if a contractor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

(1) The prospective contractor certifies to the best of its knowledge and belief, that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offense enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

(2) Where the prospective contractor is unable to certify to any of the statements in this certification, such prospective contractor shall attach an explanation to this proposal.

Special Provisions

Table of Contents

Article	Description	Page #
1.	General	5
2.	Scope of Work.	5
3.	Prosecution and Progress.	5
4.	Lane Rental Fee Assessment.	11
5.	Traffic.	12
6.	Holiday and Special Event Work Restrictions.	17
7.	Utilities.	17
8.	Other Contracts.	21
9.	Coordination with Businesses and Residents.	21
10.	Contractor Document Submittals.	22
11.	Municipality Acceptance of Sanitary Sewer and Water Main Construction.	22
12.	Referenced Construction Specifications.	22
13.	Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.	22
14.	Information to Bidders, WPDES General Construction Storm Water Discharge Permit.	22
15.	Native American Hiring Provision.	23
16.	Environmental Protection, Aquatic Exotic Species Control.	24
17.	Archaeological Site.	25
18.	Environmental Protection.	25
19.	Erosion Control.	26
20.	Notice to Contractor – Contamination Beyond Construction Limits.	26
21.	Notice to Contractor – WisDOT ITS.	26
22.	Notice to Contractor – General Provisions for City of Madison Water Main Construction.	27
23.	Notice to Contractor – General Provisions for City of Madison Sanitary Sewer.	28
24.	Notice to Contractor – City of Madison Engineering – Lighting.	31
25.	Notice to Contractor – City of Madison Parks/Yahara Hills Golf Course.	31
26.	Notice to Contractor – Dane County Information Management.	32
27.	Notice to Contractor – Dane County Landfill.	32
28.	Notice to Contractor – Ho-Chunk Gaming Madison Contact.	32
29.	Notice to Contractor – Copart Property.	32
30.	Notice to Contractor – C&L Investment Partnership Property	32
31.	Notice to Contractor – WisDOT Soils Contact.	32
32.	Notice to Contractor – Groundwater Monitoring Data.	32
33.	Notice to Contractor – Future Free Flow Bypass Lane.	32
34.	Notice to Contractor – Marsh Excavation.	33
35.	Notice to Contractor – Optional Waste Site.	33
36.	Removing Chain Link Gate, Item 204.9060.S.01.	33
37.	Removing Existing Business Sign, Item 204.9060.S.02.	33

38. Removing Existing Lighting Unit, Item 204.9060.S.03. 34
39. Surcharge Earth Embankment. 34
40. Base Aggregate Dense ¾-Inch, Item 305.0110. 35
41. Base Aggregate Dense 1 ¼-Inch, Item 305.0120. 35
42. QMP Base Aggregate Dense 1 1/4-Inch Compaction, Item 371.2000.S. 35
43. QMP HMA Pavement Nuclear Density. 42
44. Ice Hot Weather Concreting, Item 501.1000.S. 45
45. Special High Early Strength Concrete Pavement Repair and Replacement. 45
46. Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S. 45
47. Concrete Staining B-13-0893, Item 517.1010.S.01; Concrete Staining R-13-0370, Item 517.1010.S.02; Concrete Staining R-13-0371, Item 517.1010.S.03. 47
48. Architectural Surface Treatment B-13-0893, Item 517.1050.S.01; Architectural Surface Treatment R-13-0370, Item 517.1050.S.02; Architectural Surface Treatment R-13-0371, Item 517.1050.S.03. 49
49. General Provisions for City of Madison Storm Sewer. 50
50. Manhole Covers Type J-Special. 51
51. Cover Plates Temporary, Item 611.8120.S. 51
52. Pipe Grates, Item 611.9800.S. 51
53. Gates Wood Single Leaf, 16-FT, Item 616.0350.S. 52
54. Fence Safety, Item 616.0700.S. 52
55. Seeding. 53
56. Signs and Supports. 54
57. Blue Specific Service Signs. 54
58. Pond Liner Clay, Item 640.1303.S. 54
59. Field Facilities. 57
60. Nighttime Work Lighting-Stationary. 57
61. Geotextile Type SR, Item 645.0135. 59
62. General Provisions for City of Madison Electric Systems. 59
63. General Provisions for City of Madison Conduit Installation. 62
64. Install Conduit Into Existing Item, Item 652.0700.S. 62
65. Intelligent Transportation Systems (ITS) – Control of Materials. 63
66. Intelligent Transportation Systems – General Requirements. 64
67. Install Pole Mounted Cabinet, Item 673.1225.S. 67
68. Pre-Planting Vegetation Treatment, Item SPV.0005.01. 68
69. Seed Bed Preparation, Item SPV.0005.02. 70
70. Temporary Portable Rumble Strip Arrays Non-Flagging, Item SPV.0045.01. 70
71. Construct LB-3 Base, Item SPV.0060.01. 71
72. Poles 30-Foot 11 Gauge Simplex, Item SPV.0060.02. 72
73. Ground Rod, Item SPV.0060.03. 73
74. CIP Inlet 4, Item SPV 0060.04. 74
75. CIP Inlet 2x3, Item SPV 0060.05. 74
76. CIP Manhole 6x6, Item SPV 0060.06. 75

77. CIP Inlet SP, Item SPV 0060.07. 75
78. Salvage and Replace Pipe Underdrain Endwall, Item SPV.0060.08. 76
79. Removing Communication Vault, Item SPV.0060.09. 76
80. Outlet Control Structure Pond A, Item SPV.0060.10;Outlet Control Structure Pond B, Item SPV.0060.11; Outlet Control Structure Pond C, Item SPV.0060.12; Outlet Control Structure Pond D, Item SPV.0060.14. 77
81. Orifice Plate Restrictor 6-inch, Item SPV.0060.13. 77
82. Settlement Gauges, Item SPV.0060.15. 78
83. Temporary Connection to Existing Storm Sewer, Item SPV.0060.16. 79
84. Reconstructing Inlets Median 2 Grate, Item SPV.0060.17. 79
85. Fence Gate Salvaged, Item SPV.0060.19. 80
86. Native Seed Surveillance and Care Cycles, Item SPV.0060.20. 80
87. Dewatering for Pond A, Item SPV.0060.21; Dewatering for Pond B, Item SPV.0060.22; Dewatering for Pond EX-S, Item SPV.0060.23; Dewatering for Pond EX-N, Item SPV.0060.24; Dewatering for County Pond, Item SPV.0060.25. 84
88. Project Dewatering, ID 3080-01-40, Item SPV.0060.26; Project Dewatering, ID 3080-01-76, Item SPV.0060.27. 86
89. Install City Provided Sign, Item SPV.0060.30. 88
90. Precast Sign Post Base, Item SPV.0060.31. 89
91. Sign Post Base for Concrete Installation, Item SPV.0060.32. 89
92. Temporary Lighting System Millpond Road Intersection, Item SPV.0060.33. 90
93. Survey Project 3080-01-40, Item SPV.0060.34; Survey Project 3080-01-75, Item SPV.0060.35; Survey Project 3080-01-76, Item SPV.0060.36. 91
94. Waste Water Control, Item SPV.0060.37. 92
95. Reconstruct Bench and Flowlines, Item SPV.0060.38. 93
96. Utility Line Opening (ULO), Item SPV.0060.39. 93
97. Construction Staking for Sanitary Sewer, Item SPV.0060.40. 94
98. Sewer Electronic Markers, Item SPV.0060.41. 94
99. Sanitary Sewer Tap, Item SPV.0060.42. 95
100. Sanitary Sewer Access Structure (4-FT Diameter), Item SPV.0060.43; Sanitary Sewer Access Structure (5-FT Diameter), Item SPV.0060.44. 96
101. Sanitary Sewer Internal Chimney Seal, Item SPV.0060.45. 96
102. External Sanitary Sewer Access Structure Joint Seal, Item SPV.0060.46. 97
103. Adjust Sewer Access Structure Special, Item SPV.0060.47. 97
104. Reconstruct MMSD Sanitary Sewer Structure, Item SPV.0060.48. 98
105. Abandon Sanitary Sewer – Pipe Plug, Item SPV.0060.49. 99
106. Construction Staking Water Main, Item SPV.0060.50. 99
107. Water Valve 6-Inch, Item SPV.0060.51; Water Valve 8 Inch, Item SPV.0060.52; Water Valve 12-Inch, Item SPV.0060.53. 100
108. Hydrant, Item SPV.0060.54. 102
109. Salvage and Relocate Hydrant and Valve, Item SPV.0060.55. 104
110. Remove Hydrant and Valve, Item SPV.0060.56. 105
111. Adjust Water Valve Box Sections, Item SPV.0060.57. 106
112. Connect to Existing Water System, Item SPV.0060.58. 107

113. Abandon Water Valve, Item SPV.0060.59. 108
114. Abandon Existing Water Main, Item SPV.0060.60. 109
115. Cap Existing Water Main, Item SPV.0060.61. 109
116. Water Utility Line Opening, Item SPV.0060.62. 110
117. Water Main Insulation, Item SPV.0060.64. 111
118. Clay Anti-Seep Collar, Item SPV.0060.65. 112
119. Landmark Reference Monuments Special, Item SPV.0060.66. 112
120. Seeding Native Pollinator Mix Upland, Item SPV.0085.01; Seeding Native Pollinator Mix Swale, Item SPV.0085.02. 113
121. Compost Tubes, Item SPV.0090.01. 119
122. Sign Posts, Item SPV.0090.02. 121
123. Temporary Rumble Strip (Orange) in Advance of Lane Closure, Item SPV.0090.03 122
124. Sanitary Sewer Pipe SDR 26 8-Inch, Item SPV.0090.40; Sanitary Sewer Pipe SDR 26 15-Inch, Item SPV.0090.41; Sanitary Sewer Pipe SDR 35 8-Inch, Item SPV.0090.46; Sanitary Sewer Pipe SDR 35 15-Inch, Item SPV.0090.47. 123
125. Select Fill for Sanitary Sewer, Item SPV.0090.42. 124
126. Sanitary Sewer Pipe PVC 10-Inch with Casing, Item SPV.0090.43; Sanitary Sewer Pipe PVC 15-Inch with Casing, Item SPV.0090.44. 124
127. Utility Trench Patch Type III, SPV.0090.45. 126
128. Water Main 6-Inch, Item SPV.0090.50; Water Main 8-Inch, Item SPV.0090.51; Water Main 12-Inch, Item SPV.0090.52. 126
129. Casing Pipe 24-Inch, Item SPV.0090.53. 128
130. Wall Concrete Panel Mechanically Stabilized Earth R-13-0370, Item SPV.0165.01; Wall Concrete Panel Mechanically Stabilized Earth R-13-0371, Item SPV.0165.02. 129
131. 3-Inch Clear Stone, Item SPV.0195.01. 138
132. Construct Inside Drop 8-Inch, Item SPV.0200.40. 138

STSP'S Revised January 7, 2022

SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 3080-01-40, Madison – Cambridge, CTH AB Overpass, USH 12, Dane County; Project 3080-01-75, Madison – Cambridge, CTH AB Overpass, USH 12, Dane County; and Project 3080-01-76, Madison – Cambridge, CTH AB Interchange, USH 12, Dane 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, 2022 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 (20220107)

2. Scope of Work.

The work under this contract shall consist of grading, base aggregate, select crushed material, HMA and concrete pavement, concrete pavement repairs, concrete barrier, concrete curb and gutter, concrete sidewalk, storm sewer, sanitary sewer, water main, a new bridge structure (B-13-893), retaining walls (R-13-370 and 371), sign structures (S-13-559 through 565, S13-569 through 571), guardrail, lighting, ITS, erosion control, permanent signing, and traffic control items, 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 start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within 10 calendar days before the approved start date.

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

The contract time for completion is based on an expedited work schedule and may require extraordinary forces and equipment. Included in this "Prosecution and Progress" special provision are interim and final completion dates. These dates indicate that work efforts will possibly require multiple or concurrent controlling operations to occur at the same time. This information is included to assist the contractor and its subcontractors and shall not be interpreted as a demonstration of specified means and methods or work periods other than intermediate and completion dates. Indicate on the proposed schedule of operations that a large force and adequate equipment will be needed to assure that the work will be completed within the established contract time.

The contractor is advised that there may be multiple mobilizations for such items as erosion control, traffic control, signing items, temporary pavement markings and other incidental items related to the staging.

The department will make no additional payment for said mobilizations except for erosion control mobilizations for same day restoration of disturbed areas.

Notify property owners at least three calendar days in advance of any work affecting access to their entrance. Do not close access to a driveway, field entrance, or commercial entrance unless agreed to by the property owner.

Northern Long-eared Bat *(Myotis septentrionalis)*

Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees. 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).

According to the final 4(d) rule issued for the NLEB, the department has determined that the proposed activity may affect, but will not result in prohibited take of the NLEB. The activity involves tree removal but will not occur within 0.25 miles of a known hibernacula, nor will the activity remove a known maternity roost tree or any other tree within 150 feet of a known maternity roost tree.

If additional trees need to be removed, no Clearing shall occur without prior approval from the engineer, following coordination with the WisDOT REC. Additional tree removal beyond the area originally specified will require consultation with the United States Fish and Wildlife Service (USFWS) and may require a bat presence/absence survey. Notify the engineer if additional Clearing cannot be avoided to begin coordination with the WisDOT REC. The WisDOT REC will initiate consultation with the USFWS and determine if a survey is necessary.

Submit a schedule and description of Clearing operations with the ECIP 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of Clearing operations, and list those additional measures in the ECIP.

Native Prairie Seeding and Care

This contract contains native prairie seeding within the construction project limits.

Notify the Region Environmental Coordinator at least 3 days prior to the planned delivery date of native prairie seed to allow for inspection scheduling.

Native prairie seeding work will not be allowed at sites where there is active construction. Verify with the Region Environmental Coordinator the availability of planting sites.

Attend a vegetation preconstruction meeting, setup by the department. No later than 30 days after the vegetation preconstruction meeting and prior to seeding, submit one overall schedule that shows the native seed planting activities (including surveillance and care cycles), for approval by the Region Environmental Coordinator. Use the department provided template. Update the schedule at least once per month and submit for approval to the Region Environmental Coordinator.

At least once per month setup and meet with the Region Environmental Coordinator. Following the meeting, provide a meeting summary. More frequent meetings may be necessary during periods of numerous activities.

All department provided vegetation related templates and/or worksheets referenced by name in this contract are located on the department’s Highway Construction Contract Information (HCCI) website.

Native seed is to be planted in the fall of 2022.

Contractor Coordination

Hold prosecution and progress meetings once a week. The contractor’s superintendent or designated representative and subcontractor’s representatives for ongoing subcontract work or subcontractor work expected to begin within the next two weeks shall attend and provide a written schedule of the next week(s) operations. Invite all utilities, the Ho-Chunk Nation, Dane County Highway Department, City of Madison, Town of Cottage Grove, Dane County Sheriff, and Wisconsin State Patrol representatives to attend progress meetings.

The written schedule shall include begin and end dates of specific prime and subcontractor work operations. Agenda items at the meeting will include review of the contractor’s schedule and subcontractors’ schedule, evaluation of progress and pay items, and making revisions if necessary.

Plans and specifications for upcoming work will be reviewed to prevent potential problems or conflicts between contractors.

Based on the progress meeting, if the engineer requests a revised schedule, submit it within seven calendar days. Failure to submit a new schedule within seven days shall result in the engineer holding pay requests until received.

Interim Completion of Work

A. In Stage 1A, complete sanitary sewer, water main modifications, and culvert pipe work along Millpond Road between 329+40'MP' to 331+60'MP' and have traffic returned to a paved surface within 7 calendar days.

If the contractor fails to complete the sanitary sewer, water main modifications, and culvert pipe work and have traffic on Millpond Road returned to a paved surface within 7 calendar days, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day that traffic on Millpond Road is not on a paved surface beyond 7 calendar days. An entire calendar day will be charged for any period of time within a calendar day that traffic on Millpond Road is not on a paved surface beyond 12:01 AM.

B. In Stage 1B, complete 48-inch storm sewer crossing of Millpond Road at Station 345+35'M1B' and have traffic returned to existing lanes on a paved surface within 5 calendar days.

If the contractor fails to complete the pipe installation and have traffic on Millpond Road returned to existing lanes on a paved surface within 5 calendar days, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day that traffic on Millpond Road is not returned to existing lanes on a paved surface beyond 5 calendar days. An entire calendar day will be charged for any period of time within a calendar day that traffic on Millpond Road is not returned to existing lanes on a paved surface beyond 12:01 AM.

C. Complete all work on the Maahic Way Surcharge Earth Embankment area by September 29, 2022

If the contractor fails to complete all work on the Maahic Way Surcharge Earth Embankment area by September 29, 2022, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the contract work remains incomplete after 12:01 AM, September 30, 2022. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

D. Complete all work on Luds Lane and remove the existing Copart access to USH 12/18 by October 14, 2022

If the contractor fails to complete all work on Luds Lane and remove the existing Copart access to USH 12/18 by October 14, 2022, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the contract work remains incomplete after 12:01 AM, October 15, 2022. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

E. Complete all work on Millpond Road from western limits to 340'MP'+00 in Stage 1C by November 17, 2022

If the contractor fails to complete all work on Millpond Road from western limits to 340'MP'+00 in Stage 1C by November 17, 2022, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the contract work remains incomplete after 12:01 AM, November 18, 2022. An entire calendar day will be charged for any period of time within a calendar day that the road remains closed beyond 12:01 AM.

F. In Stage 3 with CTH AB closed, complete all work to allow opening of the new interchange, ramps, CTH AB, Maahic Way, and Millpond Road within 90 calendar days.

If the contractor fails to open the new CTH AB interchange within 90 calendar days of closing CTH AB, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day CTH AB remains closed beyond 90 consecutive calendar days. An entire calendar day will be charged for any period of time within a calendar day that CTH AB remains closed beyond 12:01 AM.

G. In Stage 4A with the IH39 SB-EB loop ramp closed, complete all work to allow reopening of the IH39 SB-EB loop ramp within 30 calendar days.

If the contractor fails to reopen the IH39 SB-EB loop ramp within 30 calendar days of closing, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the IH39 SB-EB loop ramp remains closed beyond 30 consecutive calendar days. An entire calendar day will be charged for any period of time within a calendar day that the IH39 SB-EB loop ramp remains closed beyond 12:01 AM.

H. In Stages 4A and 4B with the IH39 NB-EB ramp closed, complete all work to allow reopening of the IH39 NB-EB ramp within 60 calendar days.

If the contractor fails to reopen the IH39 NB-EB ramp within 60 calendar days of closing, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the IH39 NB-EB ramp remains closed beyond 60 consecutive calendar days. An entire calendar day will be charged for any period of time within a calendar day that the IH39 NB-EB ramp remains closed beyond 12:01 AM.

I. Complete all work in Stage 2 through Stage 4 as detailed in the plans by October 26, 2023.

If the contractor fails to complete all work in Stage 2 through Stage 4 as detailed in the plans by October 26, 2023, the department will assess the contractor $5,000 in interim liquidated damages for each calendar day the work remains incomplete after 12:01AM on October 27, 2023. An entire calendar day will be charged for any period of time within a calendar day that the work under Stage 4 remains incomplete beyond 11:59 PM.

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

Working Hours

Replace standard spec 107.8(6) as follows:

Work is allowed 24 hours a day.

Staged Construction:

Schedule of operations shall conform to the construction staging concept and schedule provided in the plan unless the engineer approves modifications in writing. The stages listed below are shown in the plan. Major items of work associated with each stage are identified.

Stage 1A

Estimated Start: Early September 2022. Estimated Completion: Mid-September 2022.

1. Complete clearing, grubbing, and fence removal to allow for the installation of utilities.
2. Install new city fiber to Yahara Hill Golf Course.
3. Relocate WisDOT fiber along Maahic Way.

4. Place fill and culvert pipes for Maahic Way from 146+00'WB' to 162+00'WB' LT, including overburden and monitoring devices in marsh area and temporary culvert pipe at Station 155+35'WB' LT. Maintain existing drainage to pipes under USH 12/18.

5. Install water main modifications on Millpond Road between Savannah Road and Station 343+50'MP'.

6. Install culvert pipes and storm sewer south of existing Millpond Road that will be under temporary roadway.

7. Construct temporary road on south side of Millpond Road.

8. Install sanitary sewer to SAS#1, dewatering required. Abandon existing lateral between Madison Metropolitan Sewerage District (MMSD) MH 07-249 and Parks MH 1.

9. Install cross culvert at Station 330+49'MP'.

10. Block Pond A discharge and dewater Pond A.

11. Construct Pond A including outlet structure and pipe.

12. Construct Luds Lane.

13. Excavation, fill, and construction of culvert pipes may occur in the southeast quadrant of USH 12/18 and existing CTH AB for the new interchange. Maintain drainage.

Stage 1B

Estimated Start: Mid-September 2022. Estimated Completion: early November 2022.

1. Complete Luds Lane and remove access (Station 199+50'WB', LT) from USH 12/18.
2. Install sanitary sewer along Millpond Road to SAS#6, can continue to east, but not required. Casings under USH 12/18 to be installed in Stage 2.
3. Install water main along Millpond Road to Station 346+50'MP', can continue to east, but not required. Casings under USH 12/18 to be installed in Stage 2.
4. Construct 48-inch storm sewer trunkline and structures to Station 346+50'MP'. Temporary connection into existing storm sewer at the Millpond Road and Yahara Hills Golf Course access required. Plug pipe and maintain drainage. Install culvert and storm pipes continuing from Stage 1A to the north on Millpond Road. Plug the ends of pipes at Station 339+67'MP' and Station 340+90'MP'.
5. Complete all pipe crossings of ANR pipeline along Millpond Road (Station 343+75'MP').
6. Construct west end of Millpond Road to Station 340+00'MP' and match into existing: including all grading, pipe work, curb and gutter, pavement, permanent pavement marking and signing.
7. Excavation and fill, and associated pipes may occur in the southeast quadrant of USH 12/18 and existing CTH AB for the new interchange. Maintain drainage.

Stage 1C

Estimated Start: Early November 2022. Estimated Completion: mid-November 2022.

1. Remove temporary road on south side of Millpond Road.
2. Construct remaining portions of Pond A and drainage pipes.
3. Construct remaining portions of Millpond Road to Station 340+00'MP': including all grading, pipe work, curb and gutter, pavement, multi-use path, permanent pavement marking and signing.
4. Complete Native Pollinator Mix Upland and Mix Swale seeding.

Winter Shutdown

Winter shutdown will commence with the completion of Stage 2 in the Fall of 2022. Do not resume work until March 13, 2023 unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned recommencement of work in 2023. Upon approval the engineer will issue the notice to proceed within 10 days of the approved start date.

Stage 2A

Estimated Start: Mid-March 2023. Estimated Completion: Mid-April 2023

1. Build pier for B-13-0893, install guard rail in median of USH 12/18.
2. Dewater for Pond B construction.
3. Construct north portion of Pond B and clay liner.
4. Dewater Pond EX-N and Pond EX-S.
5. Construct earthwork for new interchange and install drainage pipes on the north and south sides of USH 12/18.
6. Install pipe crossings and casings of USH 12/18, except for pipe at Station 187+00'EB'.
7. Install remaining sanitary sewer and water main along Millpond Road
8. Install sanitary sewer and water main along Maahic Way. End Stage 2 work prior to existing CTH AB.
9. Install 48-inch/42-inch storm sewer to Pond B, including all laterals
10. Construct Millpond Road east of the existing Millpond Road and USH 12/18 intersection to existing CTH AB.
11. Construct pipes and earthwork on Maahic Way to Station 185+00'WB'. Do not close or cross the north leg of CTH AB, Long Drive or Landfill driveway.

Stage 2B

Estimated Start: Mid-April 2023. Estimated Completion: Mid-June 2023

1. Construct abutments for B-13-0893, girders and deck construction.
2. Construct retaining walls R-13-370 and R-13-371.
3. Construct Pond B south section.
4. Install pipe crossings of USH 12/18, except for culvert pipe at Station 187+00'EB'
5. Pavement Repair EB outside lane from Station 145+00'EB' to 186+00'EB'. Complete barrier wall and outside shoulder.
6. Finish grading and pipe work, and begin pavement, curb and gutter and sidewalk for the interchange except for the ramp connections to USH 12/18 and CTH AB connection to existing CTH AB. Maintain drainage.
7. Construct Ponds C and D.
8. Construct Millpond Road and Maahic Way to the limits as shown in the plans.
9. Construct the Yahara Hills Golf Course access.

Stage 3A

Estimated Start: Mid-June 2023. Estimated Completion: Early August 2023.

1. Install USH 12/18 pipe crossing at Station 187+00'EB'.
2. Install sanitary sewer and water main along north leg of CTH AB.
3. Dewater County Pond and complete pond modifications.
4. Construct outside shoulders of USH 12/18 (186+00'EB' to 204+00'EB').
5. Mill and overlay outside shoulder from Station 209+00'EB' to 227+00'EB'.

6. Construct USH 12/18 EB Pavement Replacement, inside lane Station 215+48'EB' to 224+00'EB'.
7. Mill and construct inside shoulder from Station 209+00'EB' to 215+48'EB' and 224+00'EB' to 227+00'EB'.
8. Construct Ramp A, C, and D connections to USH 12/18 and CTH AB connection to existing CTH AB.
9. Continue construction on Millpond Road including connection to CTH AB.
10. Continue construction on Maahic Way through the existing Long Drive and Landfill Drive intersections.
11. Construct CTH AB and Maahic Way intersection.
12. Construct temporary road on north side of Millpond Road/Ramp E roundabout.

Stage 3B

Estimated Start: Early August 2023. Estimated Completion: Late August 2023.

1. Construct USH 12/18 Pavement Repair outside lanes WB and any remaining sections EB.
2. Construct USH 12/18 EB Pavement Replacement, outside lane Station 215+48'EB' to 224+00'EB' and complete connection to Ramp B.
3. Continue construction of USH 12/18 outside shoulders.
4. Complete work on CTH AB, ramps, Millpond Road, and Maahic Way to open to traffic in Stage 4A.
5. Complete bridge B-13-0893 staining.

Stage 4A

Estimated Start: Early-September 2023. Estimated Completion: Late September 2023

1. Complete construction of USH 12/18 outside shoulders at existing intersections with USH 12/18. Remove Long Drive and Landfill Drive accesses onto USH 12/18.
2. Construct Ramp E.
3. Construct the Millpond Road/Ramp E roundabout.

Stage 4B

Estimated Start: Late September 2023. Estimated Completion: Late October 2023

1. Construct USH 12/18 Pavement Repair inside lanes EB and WB.
2. Construct USH 12/18 median shoulders and grade median.
3. Remove temporary pavements north of Millpond Road near the Millpond Road/Ramp E roundabout.
4. Construct remaining portions of Ramp E/Millpond Road.

Stage 5

Estimated Completion: December 15, 2023

1. Complete Native Seeding and Planting Surveillance and Care Cycles.

Traffic for roadways associated with each stage is summarized below.

4. Lane Rental Fee Assessment.

A General

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

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

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

B Lane Rental Fee Assessment

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

- $6,000 per lane, per EB direction of travel, per hour broken into 15-minute increments
- $3,000 per lane, per WB direction of travel, per hour broken into 15-minute increments
- $3,000 per ramp, per hour broken into 15-minute increments

Do not reopen the roadways until all debris and equipment are removed from the traveled way and its clear zone. Do not reopen the roadways until all signs, drums, barricades, and traffic control devices required to close the roadway are covered, moved, or removed. If a lane is obstructed at any time due to contractor operations, it is considered a closure. The total lane rental fee assessed to the contractor will be the summation of separate fees for each traffic lane and each direction of traffic violation.

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

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

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

The department may elect to consider work done during unauthorized lane closure time periods as unauthorized work according to standard spec 105.3.2.3.

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

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

5. Traffic.

Submit to the engineer for approval a detailed traffic control plan for any changes to the proposed as shown in the plans. Submit the plan 14 days prior to the intended use. A request does not constitute approval.

Do not switch traffic to the next construction stage until all signing, pavement marking and traffic control devices for the stage are in place, conflicting markings and signs are covered or removed.

Place traffic control drums and other temporary traffic control devices on the outer edge of the shoulder when not in use.

Conduct operations in such a manner that causes the least interference and inconvenience to the free flow of vehicles on the roadways. This includes:

- All construction vehicles and equipment entering or leaving the live traffic lanes shall yield to all through traffic.
- Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (yellow flashing signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1,000 feet. Activate the beam when merging into or exiting a live traffic lane.
- Do not deliver or store materials and equipment within open travel lanes or ramps during any stage of construction.

- Do not deliver or store materials on adjacent streets beyond the project limits without specific approval from the engineer.
- Do not perform night closures of USH 12/18 or CTH AB when there is the potential for snow events.

Maintain traffic on USH 12/18 and all ramps on a paved concrete or asphalt surface at all times.

No lane closures of USH 12/18 shall be allowed through the CTH AB intersection while CTH AB is open.

No lane closures of USH 12/18 shall be allowed through the Millpond Road intersection except during Stage 2 and Stage 4 as shown in the plans.

Do not open a roundabout to circulatory traffic until all proposed lights within the roundabout are operational.

Flagging is permitted along CTH AB, Millpond Road, and Long Drive, except during any of the periods below under the article Holiday and Special Event Work Restrictions. Do not permit flagged traffic to queue up within 300 feet of the closest through lane along USH 12/18.

Permitted Lane / Ramp Closures

Allowable lane and ramp closure hours not shown in the plan are as follows:

Roadway	Time Period, daily lane closure	Full Roadway Closures
USH 12/18 EB – from IH 39 EB-NB Ramp to, but not including Millpond Road	6:00 PM to 3:00 PM daily, single lane closure	8:00 PM to 6:00 AM
USH 12/18 EB – west of the IH 39 EB-NB Ramp	9:00 PM to 5:00 AM, single or double lane closure	none
USH 12/18 WB – west of, but not including Millpond Road	8:00 AM to 6:00 AM daily, single lane	7:00 PM to 5:00 AM
IH 39 SB-EB loop Ramp	None	8:00 PM to 6:00 AM
IH 39 NB-EB Ramp	None	8:00 PM to 6:00 AM
CTH AB	None	8:00 PM to 5:00 AM

Intermittent nighttime full closures will be allowed for USH 12/18, IH 39 SB-EB loop ramp, and IH 39 NB-EB ramp to accommodate installation of culvert pipes, storm sewer pipes, sanitary sewer casings, water main casings, and setting girders across the highway during the hours listed in the Full Roadway Closures table and conditions listed below:

- USH 12/18 and IH 39 SB-EB loop ramp may be closed for up to 24 nights during Configurations 1, 2, 3, and 4.
- IH 39 NB-EB ramp may be closed for up to 2 nights during Configuration 1.

Where three USH 12/18 EB lanes exist, contractor may close two-lanes on USH 12/18 EB, west of the IH 39 EB-NB ramp for Pavement Repair/Replacement. IH 39 SB-EB loop ramp and IH 39 NB-EB ramp may be closed for this work during the hours listed in the Full Roadway Closures table and conditions listed below:

- IH 39 SB-EB loop ramp may be closed for up to 4 nights.
- IH 39 NB-EB ramp may be closed for up to 2 nights.

During lane closures along USH 12/18 maintain 16 feet available clear width for one-lane traffic in either direction. Whenever the single-lane clear width along USH 12/18 is less than 16 feet, provide width restriction signing at upstream interchanges of IH 39 and CTH N, according to details in the plan and SDD 15C2f (“Advanced Width Restriction Signing”).

No shoulder closures will be permitted over holiday weekends listed under the Holiday Work Restrictions article.

Shoulders may be closed if required by the work operation, but the right and left shoulder may not be closed in the same area at the same time without approval of the engineer.

Detour Routes

Detour traffic during the following closures, and as detailed in the plans:

- Stage 2A, USH 12/18 nighttime closure for culvert pipe installation west of Millpond Road (Configuration 1)
- Stage 2A, USH 12/18 nighttime closure for culvert and storm pipe installation, sanitary sewer crossings, and water main crossings between Millpond Road and CTH AB (Configuration 2)
- Stage 2B, USH 12/18 nighttime closure for beam setting east of CTH AB (Configuration 3)
- Stage 3A, USH 12/18 nighttime closure for culvert pipe installation at Station 187+00'EB' (Configuration 4)
- Stage 4A, IH 39 SB-EB and IH 39 NB-EB extended closure for Ramp E construction
- Stage 4B, IH 39 NB-EB extended closure for work in USH 12/18 median

Private and Commercial Access

Access to businesses and residences shall be maintained throughout the project. If an access is to be temporarily closed, notify those affected a minimum of two business days in advance of the closure.

No closures along Landfill Drive are allowed during business hours. Emergency access shall be maintained to the landfill gas facility at all times.

Maintain a clearly delineated, suitable driving surface for residents, businesses and emergency vehicles of at least 10 feet throughout construction. A suitable driving surface is defined as a material capable of withstanding a fully loaded quad axle truck without yielding as approved by the engineer. The 10-foot lane shall be graded to drain and rolled with a smooth drum vibratory roller or other alternate compaction equipment that produces a smooth driving surface.

The contractor shall provide the engineer and local law enforcement with a 24-hour contact person responsible for the maintenance of the driving surface.

Traffic Operations

Stage 1A Traffic (2022)

- USH 12/18: Open to 2 lanes in each direction. Single lane closures only during off-peak times. Shoulder closures allowed.
- CTH AB: Open
- Millpond Road: Flagging operations to install sanitary sewer, water main modifications, and culvert pipes. Traffic can run on gravel from pipe installations for 7 days. Traffic on existing roadway, eastbound outside shoulder closed.
- Millpond Road/Long Drive South intersection: Flagging operations to install sanitary sewer. Traffic on existing roadway.

Stage 1B Traffic (2022)

- USH 12/18: Open to 2 lanes in each direction. Single lane closures allowed only during off-peak times. Shoulder closures allowed.
- CTH AB: Open
- Millpond Road: Traffic on temporary roadway. Traffic reduced to 10-foot travel lanes at west project limits.
- Millpond Road at Station 345+50 'MB': Install 48-inch storm sewer trunkline across Millpond Road under temporary shifting of roadway and flagging operations. (Phase 1 and Phase 2).
- Millpond Road/Long Drive South intersection: Flagging operations to construct intersection.

Stage 1C Traffic (2022)

- USH 12/18: Open to 2 lanes in each direction. Single lane closures allowed only during off-peak times. Shoulder closures allowed.
- CTH AB: Open
- Millpond Road: Traffic on existing and new pavements. Traffic reduced to 10-foot travel lanes at the west project limits. Millpond Road eastbound outside shoulder closed.
- Millpond Road/Long Drive South intersection: Open

Winter Shutdown - All lanes of USH 12/18 and CTH AB shall be open. Traffic control items shall be removed or covered.

Stage 2A Traffic (2023)

- USH 12/18: EB outside lane closure from 125+00'EB' to 181+00'EB'. No single lane closures allowed through the CTH AB intersection. Work requiring a lane closure on USH 12/18 that will extend through CTH AB shall only occur during CTH AB nighttime closures. EB and WB outside shoulder closures. Temporary barrier wall on the inside at Structure B-13-0893, with lane shifts. Nighttime full closures of USH 12/18 for pipe crossings. See roadway closure configurations.
- CTH AB: Open
- Millpond Road: Open
- Long Drive/Maahic Way (west): Traffic on existing pavements. Flagging operations may occur.

Stage 2B Traffic (2023)

- USH 12/18: EB outside lane closure from 125+00'EB' to 181+00'EB'. No single lane closures allowed through the CTH AB intersection. Work requiring a lane closure on USH 12/18 that will extend through CTH AB shall only occur during CTH AB nighttime closures. EB and WB outside shoulder closures. Temporary barrier wall on the outside at Structure B-13-0893, with lane shifts. Nighttime full closures of USH 12/18 for pipe crossings. See roadway closure configurations.
- CTH AB: Open
- Millpond Road: Open
- Long Drive/Maahic Way (west): Traffic on existing pavements. Flagging operations may occur.

Stage 3A Traffic (2023)

- USH 12/18: EB outside lane closure from 163+00'EB' to 206+00'EB' with a shift to an inside lane closure from 206+00'EB' to 225+00'EB'. WB outside lane closure from 172+00'WB' to 231+00'WB'. Outside shoulder closures as shown. Nighttime full closures of USH 12/18 for pipe crossing. See roadway closure configurations.
- CTH AB: Closed
- Millpond Road: Open
- Long Drive/Maahic Way (west): Traffic on existing and roadways being built under traffic with flagging required.
- Landfill Drive: No closures or flagging while landfill is open. Emergency access to be maintained to landfill gas facility at all times.

Stage 3B Traffic (2023)

- USH 12/18: EB outside lane closure from 163+00'EB' to 225'+00'EB' with lane shift at 209+00'EB'. WB outside lane closure from 172+00'WB' to 231+00'WB'. Outside shoulder closures as shown.
- CTH AB: Closed
- Millpond Road: Open

- Long Drive/Maahic Way (west): Traffic on existing and roadways being built under traffic with flagging required.
- Landfill Drive: No closures or flagging while landfill is open. Emergency access to be maintained to landfill gas facility at all times.

Stage 4A Traffic (2023)

- USH 12/18: EB outside lane closure from 110+00'EB' to 148+00'EB' with temporary barrier wall. WB outside lane closed from 130+00'WB' to 231+00'WB'. Additional lane closures and lane shifts for pavement replacement and pavement repair allowed according to Traffic Provisions and approval of engineer.
- IH 39 SB-EB ramp: Closed, detour
- IH 39 NB-EB ramp: Closed, detour
- CTH AB: New interchange ramps and roadway open
- Millpond Road: Open to traffic via the CTH AB interchange. Temporary roadway north of Ramp E roundabout.
- Maahic Way: Open to traffic via the CTH AB interchange
- Landfill Drive: Open to traffic via Maahic Way

Stage 4B Traffic (2023)

- USH 12/18: EB inside lane closed from 110+00'EB' to 215+00'EB'. WB inside lane closed from 130+00'WB' to 231+00'WB'. Additional lane closures and lane shifts for pavement replacement and pavement repair allowed according to Traffic Provisions and approval of engineer.
- IH 39 SB-EB ramp: Open
- IH 39 NB-EB ramp: Closed, detour
- CTH AB: New interchange ramps and roadway open.
- Millpond Road: Open to traffic via the CTH AB interchange. Ramp E roundabout open for Millpond Road traffic only.
- Maahic Way: Open to traffic via the CTH AB interchange
- Landfill Drive: Open to traffic via Maahic Way

Advance Notification

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

PCMS Prewarn

Place Portable Changeable Message Signs (PCMS) 7 days prior to construction. Place PCMS 3 days prior to nighttime closures of CTH AB. Place PCMS 7 days prior to roadway closures of USH 12/18, long-term CTH AB closure in Stage 3, and IH 39 ramp closures. See plans for department approved messages to be displayed on each PCMS.

Wisconsin Lane Closure System Advance Notification

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

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

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.

6. Holiday and Special Event Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 12 or CTH AB 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, September 2, 2022 to 6:00 AM Tuesday, September 6, 2022 for Labor Day;
- From noon Friday, November 18, 2022 to 6:00 AM Monday, November 21, 2022 for Gun Deer Hunting Opening Weekend;
- From noon Wednesday, November 23, 2022 to 6:00 AM Monday, November 28, 2022 for Thanksgiving;
- From noon Friday, December 23, 2022 to 6:00 AM Tuesday, December 27, 2022 for Christmas;
- From noon Friday, December 30, 2022 to 6:00 AM Monday, January 2, 2023 for New Year's Day;
- From noon Friday, May 26, 2023 to 6:00 AM Tuesday, May 30, 2023 for Memorial Day;
- From noon Friday, June 30, 2023 to 6:00 AM Wednesday, July 5, 2023 for Independence Day;
- From noon Friday, September 1, 2023 to 6:00 AM Tuesday, September 5, 2023 for Labor Day.

stp-107-005 (20210113)

7. Utilities.

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

stp-107-065 (20080501)

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.

Underground and overhead utility facilities are located within the project limits. All station locations, offsets and depths referenced are approximate locations. Coordinate construction activities with a call to Digger's Hotline or a direct call to the utilities that have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearance from overhead facilities at all times.

Additional detailed information regarding the location of utility facilities is available at the region WisDOT office during normal working hours.

Project 3080-01-40 Utilities

ANR Pipeline Co has underground 4-inch and 10-inch high pressure gas mains crossing US 12 & 18 Service Road, USH 12/18, Ramp E, and Millpond Road just west of the existing Millpond Road intersection (between Station 143+00 EB and Station 144+00 EB). No adjustments are anticipated. Coordinate with ANR Pipeline representatives prior to construction activities occurring above or withing 25 feet of ANR facilities to allow an ANR Pipeline representative to be present during construction activities.

City of Madison Engineering - Communications has an underground fiber line located just to the east of the existing Millpond Rd and USH 12/18 intersection. The fiber line will be relocated with the project to the east from its current location. The fiber line will travel east along the proposed right-of-way before turning and heading south, crossing USH 12 & 18 Service Road, USH 12/18, and Millpond Road around Station 148+00'EB'. The fiber line will connect to the existing fiber line located on the west side of the Golf Course Access Road.

City of Madison – Sewer has an existing underground sanitary line running north-south under USH 12/18, Ramp E, and Millpond Rd which will remain in place. The sanitary line connects into MMSD's sanitary manhole located at approximately Station 329+64 RT. Utility adjustments and relocations will occur with the project. The underground sanitary sewer from MMSD's sanitary manhole heading to the east to the manhole at approximately Station 332+00'MP' will be discontinued in place with slurry. New underground sanitary will be installed along Millpond Road from MMSD's sanitary manhole from Station 329+64 RT to Station 382+50'MP'. The new sanitary sewer will turn north and cross under proposed Millpond Rd, USH 12/18, and Maahic Way and connect into a manhole at Station 469+10'LD' LT. The sanitary sewer will also extend to the east from Station 469+10'LD' to the east to Station 486+20'LD' before turning north to a manhole at Station 538+50'AB' and continuing to the east to the east side of CTH AB. Sanitary laterals will also be installed at Stations 365+30'MP' to the south, 369+10'MP' to the north, and 374+25'MP' to the south.

Flint Hills Resources, LLC has and underground gas main crossing US 12 & 18 Service Road, USH 12/18, Ramp E, and Millpond Road just west of the existing Millpond Road intersections. FHR's gas main crosses USH 12/18 between Station 142+00 'EB' and 142+25 'EB' before heading west along the south side of Ramp E. FHR facilities turn southwest and cross the Millpond Rd and Long Dr intersection diagonally before heading west and crossing again at the Millpond Rd and Savannah Rd intersection. FHR's gas main is anticipated to be exposed while performing marsh excavation activities between USH 12/18 and Millpond Rd. Coordinate with FHR representatives prior to construction activities occurring above or within 25 feet of FHR facilities to allow an FHR representative to be present during construction activities.

Madison Metropolitan Sewerage District (MMSD) has a sanitary manhole located on the south side of Millpond Road at approximately Station 329+40'MP'. MMSD sanitary sewer line heads south from the existing manhole before leaving the project area. Reconstruct the sanitary manhole to match the new finished grade and rotate the opening such the manhole opening is outside the curb and gutter. Perform this work in accordance with the requirements of Reconstructing MMSD Sanitary Sewer Structure.

Madison Water Utility has underground water lines running along Millpond Road, Luds Lane, crossing USH 12/18, and running along the north side of US 12 & 18 Service Road. Relocations, adjustments, and new water lines will be installed with the project. The water main along the north side of Maahic Way at approximately Station 437+88'LD' will be extended along Maahic Way to approximately 446+55'LD'. The water will head south under USH 12/18. The water crossing under USH 12/18 will be installed in a 24-inch casing pipe. On the south side of USH 12/18, the water main will continue to the east and west along Millpond Road. The water main to the east will continue to approximately Station 374+25'MP'. A water lateral will be installed at approximately Station 374+10'MP' to the south. Another crossing will be installed under USH 12/18 to the north at approximately Station 369+21'MP'. The crossing under USH 12/18 will be installed in a 24-inch casing. The water main will continue to the north and east. The water main along Maahic Way will continue to approximately Station 468+25'LD' where it will turn to the north and connect to a hydrant and to the east under CTH AB at approximately Station 538+85'NB'. The water main to the west along Millpond Road from approximately Station 346+30 RT to Station 343+46 RT where it will connect to the existing water system. The existing water main on the north side of existing Millpond from

approximately Station 324+75 LT to 329+27.9 RT will be discontinued and the existing water main will be cut and capped at approximately Station 324+75 LT.

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

- **Alliant Energy – Electric**
- **Alliant Energy - Gas**
- **AT&T WI**
- **Charter Communications**
- **Frontier Communications of WI LLC**
- **Madison Gas and Electric – Electric**
- **Madison Gas and Electric – Gas**
- **Metropolitan Unified Fiber Network (MUFN)**

Project 3080-01-75 Utilities

Alliant Energy – Electric has overhead and underground facilities running along and crossing existing CTH AB. Utility adjustments and relocations will occur prior to the project. The overhead lines from Station 500'NB' heading north to Station 539'NB' will be removed. The existing underground electric lines from Station 18'XAB' heading east to Station 219+63'EB' will be discontinued in place. New underground will be installed prior to the start of the project from Station 500'NB' following the new right-of-way limits to a switchgear located at Station 213'EB'. Underground to continue East following the slope intercept limits to Station 219+63'EB' and splice into existing serving Nelson's Bus Service. New crossing at Station 213'EB' to the North right-of-way limits maintaining 6' of depth from current grade within slope intercept limits. Underground will continue along gas route outside slope intercepts along new right-of-way limits from Station 213'WB' heading West then North along new Luds Lane and West along existing Luds Lane to tie into existing overhead electric outside the project limits near the Luds Lane and CTH AB intersection. A 6-inch conduit will be installed across Luds Lane and East to the end of the new right-of-way for the future Dane County Solar site.

Alliant Energy – Gas has 2 underground lines running along the north side of USH 12/18 east of existing CTH AB. Utility adjustments and relocations will occur prior to the project. Existing gas from Station 214'WB to Station 539 "WB" to be purged of gas and discontinued in place. New gas facilities will be installed prior to the project outside slope intercepts along new right-of-way limits from Station 214'WB' heading West then North along new Luds Lane to tie into existing gas outside the project limits along existing Luds Lane.

Frontier Communications of WI LLC has underground telephone and fiber lines throughout the project. Relocations and adjustments will occur prior to and during the project. Utility adjustments and relocations are anticipated to start in June of 2022 and are anticipated to take approximately 90 working days. Frontier will relocate their existing fiber line running parallel to USH 12/18 on the north side to the proposed right-of-way along Ramp C and CTH AB from the end of the project to approximately Station 808+25'C' RT. New copper and fiber will be installed from the beginning of the project to approximately Station 702+50'B'. New cable will follow the proposed right-of-way along the east side of proposed CTH AB.

Madison Gas and Electric - Gas (MG&E - Gas) has underground gas facilities throughout the project. Utility adjustments and relocations will occur in two stages. Relocations will occur prior to and during the project. All MG&E gas facilities are located along the west side of existing CTH AB or to the west. The gas main located along the west side of existing CTH AB from approximately Station 6+50'XAB' LT to the north will be discontinued. A new gas main will be installed along the west side of existing CTH AB from approximately Station 500+00'NB' LT to approximately 6+50'XAB' LT. The new gas main will cross under existing CTH AB and will generally follow along the left side of proposed CTH AB and Millpond Road from approximately Station 6+50'XAB' to Station 393+74.32'MPE'. The gas main relocations will be performed in two stages. Stage one, the west phase, will occur prior to construction and will be west of approximately Station 348+50'MP'. Stage one will also include a temporary tie-in from the relocated facilities to the existing facilities at approximately Station 358+50'MP' on the right side. Stage two, the east phase will occur during construction after clearing and grubbing activities.

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

- **City of Madison Engineering - Sewer** adjustments performed under project 3080-01-40.
- **Madison Gas and Electric – Electric**

Project 3080-01-76 Utilities

Alliant Energy - Electric has overhead and underground facilities running along and crossing existing CTH AB. Utility adjustments and relocates will occur prior to the project. The overhead lines from Station 500'NB' heading north to Station 539'NB' will be removed. The existing underground electric lines from Station 18'XAB' heading east to Station 219+63'EB' will be discontinued in place. Alliant Energy will install new electric facilities around project 3080-01-76 to the east of proposed CTH AB following the new right-of-way prior to construction.

Alliant Energy - Gas has 2 underground lines running along the north side of USH 12/18 east of existing CTH AB. Utility adjustments and relocates will occur prior to the project. Existing gas from Station 214'WB to Station 539 "WB" to be purged of gas and discontinued in place. New gas facilities will be installed prior to the project outside slope intercepts along new right-of-way limits from Station 214'WB' heading West then North along new Luds Lane to tie into existing gas outside the project limits along existing Luds Lane.

ANR Pipeline has underground 4-inch and 10-inch high pressure gas mains crossing US 12 & 18 Service Road, USH 12/18, Ramp E, and Millpond Road just west of the existing Millpond Road intersection (between Station 143+00 EB and Station 144+00 EB). No adjustments are anticipated. Coordinate with ANR Pipeline representatives prior to construction activities occurring above or withing 25 feet of ANR facilities to allow an ANR Pipeline representative to be present during construction activities.

Charter Communications has underground and overhead facilities west of the existing Millpond Road intersection with USH 12/18. Utility adjustments and relocates will occur prior to the project. Charter overhead lines are located on MG&E – Electric poles in the area of Long Drive. The MG&E pole at approximately Station 32+75'E' will be relocated to the south prior to the project. Once the MG&E pole is relocated to the south, Charter's facilities will be relocated onto the new pole. Charter's work is dependent on MG&E Electric relocating their pole located at Station 32+72'E'. Charter's work will be completed within 10 working days from relocation of the pole.

Flint Hills Resources (FHR) has and underground gas main crossing US 12 & 18 Service Road, USH 12/18, Ramp E, and Millpond Road just west of the existing Millpond Road intersections. FHR's gas main crosses USH 12/18 between Station 142+00 'EB' and 142+25 'EB' before heading west along the south side of Ramp E. FHR facilities turn southwest and cross the Millpond Rd and Long Dr intersection diagonally before heading west and crossing again at the Millpond Rd and Savannah Rd intersection. FHR will relocate existing gas vents on the north and south sides of USH 12/18 prior to construction. FHR's gas main is anticipated to be exposed while performing marsh excavation activities between USH 12/18 and Millpond Rd. Follow FHR requirements for excavation, backfill, bracing, and maximum length of unsupported pipe during marsh excavation activities. Coordinate with FHR representatives prior to construction activities occurring above or within 25 feet of FHR facilities to allow an FHR representative to be present during construction activities.

Frontier Communications of WI LLC has underground telephone and fiber lines throughout the project. Relocations and adjustments will occur prior to and during the project. Utility relocations are anticipated to start June of 2022 and are anticipated to take approximately 90 working days. Frontier will install a new crossing under USH 12/18 from the south side of Millpond Road to the North side of Maahic Way and connect into the existing cable located at approximately Station 449+25'LD'. Frontier's facilities will be relocated along the south side of Millpond Road from the proposed crossing of USH 12/18 to the end of the project at Station 393+74.32'MPE' The existing crossing of USH 12/18 at approximately Station 196+10'EB' will be discontinued. A new cable will be installed following the proposed right-of-way along the east side of proposed CTH AB. The existing fiber cable running parallel to USH 12/18 on the north side will be relocated to the proposed right-of-way from the end of project 3080-01-75 to approximately Station 808+25'C' RT.

Madison Gas and Electric - Electric (MG&E - Elec) has underground and overhead facilities throughout the project. Utility adjustments and relocates will occur prior to the project. All MG&E electric facilities are located west of existing CTH AB. The existing poles located at approximately Station 32+75'E', 355+25'MP, 357+10'MP', 358+85'MP', and 442+00'LD' will be relocated prior to the project to remove any conflicts. The existing poles located at Stations 37+85'E', 44+00'E', 346+00'MP', and 359+45'MP' will remain in place during construction. Notify MG&E – Electric contract prior to working around these poles so MG&E can hold the poles during excavation around the poles. MG&E will provide service to the temporary light pole from the existing overhead pole located at approximately Station 346+00'MP' LT. Coordinate with MG&E representatives to have service to the temporary light at the Millpond Road intersection as well as the light poles for the median opening prior to removing the existing service and light pole located at approximately Station 344+25'MP' LT.

Madison Gas and Electric – Gas (MG&E – Gas) has underground gas facilities throughout the project. All MG&E gas facilities are located along the west side of existing CTH AB or to the west. Utility relocates will occur in two stages (west phase and east phase) which will be split at approximately Station 348+50'MP'. Stage one, the west phase will occur prior to construction, and stage two, the east phase, will occur during construction after clearing and grubbing activities. The existing gas main located along the south side of USH 12/18 from approximately Station 133+00'EB' to approximately Station 6+50'XAB' including the crossing under USH 12/18 at approximately Station 168+75'EB' will be discontinued. New gas main will be installed along the south side of USH 12/18 from approximately Station 133+00'EB' to the west to approximately Station 130+75'EB'. The new gas main will turn south and travel along the east side of Long Drive to the northeast quadrant of Long Drive and Millpond Road. The new gas main will split and head east and west along Millpond Road. The new gas main to the west will travel along the north side of Millpond Road to approximately Station 324+50'MP' where it will split and will cross under Millpond Road and head to the northwest and connect into the existing gas main. The new gas main to the east of the Long Drive intersection will travel along the north side of Millpond Road to west side of the proposed roundabout at Millpond Road and Ramp E. The new gas main will cross under Millpond Road and travel along the south side of Millpond Road to the end of the project at Station 393+74.32'MPE'. A new gas main crossing under USH 12/18 will be installed from the south side of Millpond Road to the north side of Maahic Way at approximately Station 168+50'EB'.

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

- **AT&T WI**
- **City of Madison Engineering – Communications** adjustments performed under project 3080-01-40.
- **City of Madison Engineering - Sewer** adjustments performed under project 3080-01-40.
- **Madison Metropolitan Sewerage District (MMSD)** adjustments performed under project 3080-01-40.
- **Madison Water Utility** adjustments performed under project 3080-01-40.
- **Metropolitan Unified Fiber Network (MUFN)**

8. Other Contracts.

Other projects to be constructed concurrently include:

Landscaping surveillance and care cycles along IH 39, ID 1007-12-79 completed by December 15, 2022.

9. 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.

10. Contractor Document Submittals.

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

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

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

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

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

11. Municipality Acceptance of Sanitary Sewer and Water Main Construction.

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

12. Referenced Construction Specifications.

Construct the work enumerated below conforming to the City of Madison Standard Specifications. If there is a discrepancy or conflict between the referenced specification and the standard specifications regarding contract administration, part 1 of the standard specifications governs.

Conform to the referenced construction specifications for the following:

Water Main (all work required in Project 3080-01-40)

Sanitary Sewer (all work required in Project 3080-01-40)

stp-105-002 (20130615)

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

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Jenny Grimes at (608) 516-9760.

stp-107-054 (20210708)

14. Information to Bidders, WPDES General Construction Storm Water Discharge Permit.

The department has obtained coverage through the Wisconsin Department of Natural Resources to discharge storm water associated with land disturbing construction activities of this contract under the Wisconsin Pollutant Discharge Elimination System General Construction Storm Water Discharge Permit (WPDES Permit No. WI-S066796-1). A certificate of permit coverage is available from the regional office by contacting Mark Sponem at (608) 513-1792. Post the permit in a conspicuous place at the construction site.

stp-107-056 (20180628)

15. Native American Hiring Provision.

Pre-Bid

Before bid submittal, contact the Ho Chunk Nation Department of Labor to provide information on hiring procedures and future employment opportunities, and gather information on the tribal work force and tribal resources (ex. Native American owned DBE, tribal businesses, products, potential workers, etc.).

Ho-Chunk Nation Department of Labor office contact information:

William Collins
Tribal Workforce Development Division Manager
PO Box 667
Black River Falls, WI 54615
Phone: (715) 284-9343 Ext. 11140
Fax: (715) 284-1520
Email: William.Collins@ho-chunk.com

Maintain documentation of all efforts made to communicate with the Ho-Chunk Nation Department of Labor using DT2400 Pre-Bid Contact Verification Form. This form is to be used as a record of communication with the designated tribe's assigned contact person. Please submit the DT2400 form and any supporting documentation when you submit the bid request (DT1633) for the project via email to:

DOT DTSD Highway Construction Contractors constplans.dtid@dot.wi.gov

The Eligible Bidders list will not be updated until this documentation is received.

After Execution

The contractor shall contact William Collins of the Ho-Chunk Nation with the following information regarding available employment opportunities for prime and subcontractors at a minimum of five business days before the tribal coordination meeting:

- Job classification/trade
- Job qualifications and required skills
- Employment period
- Wage
- Copy of job application
- List of subcontractors and contact information (ex. Name, email, phone, etc.)
- List of available internships

After receiving employment opportunities, William Collins may provide employment referrals or recruitment sources throughout the life of the project to obtain qualified referrals.

Document all efforts made to communicate job opportunities and the results of hiring activities throughout the life of the contract. Utilize DT2405 Native American Hiring Provision Report and submit it to the Ho-Chunk Nation and WisDOT Regional Labor Compliance Specialist on the 15th of every month for the previous month until the project construction is complete. Final report should be indicated on the form. Report shall include prime contractor and subcontractor data.

WisDOT Regional Labor Compliance Specialist contact information: https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/contacts.aspx

Tribal Coordination Meeting

Between execution of contract and the project pre-construction meeting, the contractor and the Ho-Chunk Nation will setup and facilitate the Tribal Coordination Meeting, establish an agenda, date and location. Any cost incurred for the meeting would be incidental to the overall project cost. The contractor shall work with the Tribe to determine who from Tribal leadership and staff the contractor should notify and invite to the meeting.

The contractor shall also notify and invite the following people to the meeting:

- Regional Tribal Liaison, Amy Coughlin, amy.coughlin@dot.wi.gov;
- Regional Labor Compliance Specialist;
- WisDOT Tribal Affairs Program Manager, Sandy Stankevich, sandy.stankevich@dot.wi.gov;
- Tribal Affairs Project Manager, Cyless Peterson, Cyless.peterson@dot.wi.gov;
- WisDOT region project team.

This meeting may also include potential interviews or introductions with potential employees. The prime contractor and all subcontractors shall attend this meeting. Discussions are to include available employment opportunities and other tribal areas of interest such as scope of work, tribal regulations and ordinances, borrow sites, waste sites, and available aggregate.

Project Completion

Submit documentation summarizing communications regarding job opportunities throughout the life of the contract. This can be done using the DT2405 form noting that this is the final report. Provide final report to the tribe and the WisDOT Regional Labor Compliance Specialist compiling the results of hiring activities for the prime contractor as well as for subcontractors at all tiers.

stp-107-200 (20200629)

16. Environmental Protection, Aquatic Exotic Species Control.

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

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

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

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

Use the following inspection and removal procedures:

1. Before leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can before leaving the area or invested waters; and
4. Disinfect your boat, equipment and gear by either:
    4.1. Washing with ~212 F water (steam clean), or
    4.2. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
    4.3. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore, this disinfect should be used in conjunction with a hot water (>104º F) application.

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

stp-107-055 (20130615)

17. Archaeological Site.

The Otto Shantz Mound Group, site 47DA0062/BDA0334, is located at approximately Station 213+00'EB' LT – Station 215+00"EB' LT, within the limits shown on the plans.

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

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

stp-107-220 (20180628)

18. Environmental Protection.

A Protection of Work Area

Broom or brush any mud, dirt, or debris deposited on any roads, as a result of construction activity at the end of the day and as directed by the engineer.

Supplement standard spec 107.18 as follows:

Ensure that all equipment that has been in contact with areas potentially infested with invasive plant species has been decontaminated. Use the following inspection and removal procedures (guidelines from the Wisconsin Department of Natural Resources) for disinfection:

Clean all equipment with hot water of 105°F to 110°F for a period of 30 minutes or hot water of 140°F for a period of 5 minutes. After cleaning, dry all equipment in a sunny location for at least 3 days.

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

B Fence Safety

Dane County will place boulders around wells to protect monitoring devices. Contractor is to place Fence Safety around these devices as indicated in the plans to serve as a visual aid for construction equipment operations.

Place Fence Safety along the Yahara Hills Golf course to serve as a visual aid for construction equipment operators to limit work within the right-of-way. Contractor is to place Fence Safety item as indicated in the plans.

C Rusty Patched Bumble Bee

The contractor will remove trees in areas where work overlaps the High Potential Zone between March 15 and October 15 after queens emerge from hibernation as an avoidance conservation measure implemented prior to construction activities to reduce the possibility of unauthorized take of overwintering queens.

The contractor will mow grasslands in areas where work overlaps the High Potential Zone between October 15 and March 15 prior to emergence of flowering forbs as an avoidance conservation measure implemented prior to construction activities to reduce the possibility of unauthorized take of foraging adults.

D Tree Protection

The projects have the potential for spreading the Emerald Ash Borer beetle. It is illegal to move or transport ask material, the emerald ash borer, and hardwood debris from quarantined areas to a non-quarantined area without a compliance agreement issued by the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP).

The projects may involve cutting or wounding oak trees. Follow standard spec 201.3(4). Between April 1 and September 30, the contractor shall also paint the cut surfaces of stumps of all healthy oak trees and saplings immediately after cutting, whether remaining in place or grubbed.

E Treatment of Water Adjacent to Wetlands or Waterways

Spoil material should be stockpiled on uplands an adequate distance from a stream, wetland, and/or any open water created by excavation. Filter fabric silt fence shall be installed between spoil material and the stream or wetland, and between the entire disturbed area and the waterway.

If dewatering is required for any reason, the water must be pumped into a properly sized and constructed settling basin before the clean/filtered water is allowed to enter any waterway or wetland. The "clean/filtered" water must be free of suspended solids and contaminants. A properly designed and constructed settling basin will take into consideration the amount of space for construction, desired pumping speed, number/size of pumps likely to be used, and the sedimentation rate of soils to be encountered. See Wisconsin Department of Natural Resources Technical Standard 1061 for method selection by soil type. The final dewatering plan must be submitted and approved in the Erosion Control Implementation Plan (ECIP).

The cost of dewatering is considered incidental to construction unless covered under other dewatering items.

19. Erosion Control.

Supplement standard spec 107.20 with the following:

Unless otherwise directed by the engineer at the end of each day, drive a tracked vehicle up and down all untracked or newly graded slopes to reduce the erosive potential of the slopes. The tracks shall be roughly perpendicular to the direction of stormwater runoff flow down the slopes. Upslope tracking is incidental to the cost of grading.

Delete the last sentence of standard spec 107.20(7) and replace it with the following:

Provide the permanent erosion control measures immediately after performing grading operations, unless temporary erosion control measures are specified or authorized by the engineer.

(5/14/2013)

20. Notice to Contractor – Contamination Beyond Construction Limits.

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

1. Station 129+00'EB' to 131+00'EB' from 100 feet RT of centerline to 400 feet RT of centerline.

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

The Hazardous Materials Report is available by contacting Jenny Grimes at (608) 516-9760 or Jennifer.Grimes@dot.wi.gov.

stp-107-100 (20050901)

21. Notice to Contractor – WisDOT ITS.

WisDOT ITS has underground fiber facilities running along the north side of USH 12/18 just south of proposed Maahic Way, crossing Maahic Way at approximately Station 485+64'LD', and crossing existing CTH AB just north of the project limits. Utility adjustments and relocates will occur with the project. Existing utilities west of approximately Station 444+75'LD' LT will remain in place. Starting from approximately Station 444+75'LD' heading east, new facilities will be installed with the project. New conduit will run along the south side of Maahic Way from approximately Station 444+75'LD' to approximately Station 473+00'LD'

where it will cross diagonally under Maahic Way to the north side of the road and continue to the east. The new conduit will continue to a new vault at approximately Station 486+00'LD'. New conduit will then cross Maahic way and continue to the east to a vault at approximately Station 527+00'NB' LT where it will turn south and cross Ramp D and continue to the proposed bridge.

22. Notice to Contractor – General Provisions for City of Madison Water Main Construction.

Contact Information:

Madison Water Utility
Peter Holmgren, P.E.
Phone: (608) 261-5530
E-mail: pholmgren@madisonwater.org

Utility Standard Specifications

Perform work according to these provisions; the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction; and the City of Madison Standard Specifications for Public Works Construction-Latest Edition (hereinafter referred to as the *City Standard Specifications*). 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. Madison Water Utility will flush and test all newly installed water mains. Coordinate as necessary with Madison Water Utility 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

Follow City Standard Specifications for water service outage notification for all affected customers. For affected businesses, provide the following additional notification measures: 1) Coordinate water service disruptions to minimize impacts to these businesses. 2) Provide as much notice as possible beyond the required 48 hour notice.

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 six 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 nine feet from grade. Assess the need for hydrant extensions. 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 twelve 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 all water laterals indicated on the plans is taken from surveys, approximate measurements, and the city'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 city'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.

23. Notice to Contractor – General Provisions for City of Madison Sanitary Sewer.

Contact Information

City of Madison – Sewer
Mark Moder
Phone: (608) 261-9250
Email: mmoder@cityofmadison.com

Utility Standard Specifications

Perform work according to these provisions and the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction and the City of Madison Standard Specifications for Public Works Construction-Latest Edition, hereinafter referred to as the City Standard Specifications.

Work Sequence

Contact the identified person above 10 working days prior to starting work on the sanitary sewer and provide a schedule of operations. Construct sanitary sewer main and laterals in stages according to the traffic control plan and in proper coordination with construction for activities adjacent to the sanitary sewer main.

Provide bypass pumping of sanitary sewage to maintain sanitary sewer service when new sewer access structures are being constructed over the existing mains.

Shop Drawings and Samples

Submit shop drawings and samples to the engineer and City of Madison Engineering Department as required in these Special Provisions and for the following:

- Sanitary Sewer Pipe Material
- Sanitary Sewer Access Structure Casting and Manhole Covers Type J (Madison logo lid)
- Sanitary Sewer Internal Chimney Seal
- Sanitary Sewer Access Structure (4-Foot Diameter)
- Sanitary Sewer Access Structure (5-Foot Diameter)
- Sewer Electronic Markers
- Casing Pipe
- Select Fill for Sanitary Sewer

Contractor's responsibilities include:

- Review shop drawings and samples prior to submittal.
- Determine and verify field measurements, field construction criteria, catalog numbers and similar data, and conformance with specifications.
- Coordinate each submittal with requirements of work and of special provisions.

Notify City Engineer or City Engineer's Representative, in writing, at time of submittal of deviations in submittals from requirements of special provisions.

NOTE: Do not begin any fabrication or work listed above as requiring shop drawings or samples until return of submittals with City Engineer's or City Engineer Representative's approval.

Provide shop drawings containing the following:

- Date of submittal and dates of previous submittals.
- Project title and number.
- Contract identification.
- Names of contractor, supplier, and manufacturer.
- Identification of product, with identification numbers, and drawing and specification section numbers.
- Field dimensions clearly identified.
- Identification of details required on drawings and in specifications.
- Manufacturer and model number (give dimensions and provide clearances).
- Relation to adjacent or critical features or work or materials.
- Applicable standards, such as ASTM, and identification of deviations from contract documents.

- Source of samples and material properties.
- Identification of revisions on re-submittals.
- 8-inch and 3-inch blank space for contractor and City Engineer stamps.
- Contractor's stamp, signed, certifying to review of submittal, verification of products, field measurement, field construction criteria, and coordination of information with submittal with requirements of work and special provisions.

If required by the City Engineer or City Engineer's Representative, resubmit shop drawings that include the following:

- Corrections or changes from previous submittals as indicated by City Engineer or City Engineer's Representative. Re-submittals are required until approved.
- Shop Drawings and Product Data: Review initial drawings or data and resubmit as specified for initial submittal. Indicate changes, which have been made other than those requested by City Engineer.

Testing and Acceptance

Submit materials production and field placement testing results as required by the City Standard Specifications or as required by the City Engineer or City Engineer's Representative. Final acceptance of sanitary sewer and related materials such as backfill, slurry, etc. will come from the City Engineer or City Engineer's Representative.

Allow the City of Madison to sample/test materials as requested. Provide complete copies of required submittals as follows:

Shop Drawings: one copy

Sampling/Testing Results: one copy

Deliver required copies of submittals and testing results to:

Mark Moder
City of Madison, Department of Public Works
City-County Building, Room 115, 210 Martin Luther King Jr. Boulevard
Madison, Wisconsin 53710

The City Engineer or City Engineer's Representative will review and return shop drawings to the contractor within one week of date of receipt.

Transmittals by email to mmoder@cityofmadison.com will be accepted in lieu of paper copies.

Protection of Sewers

Take adequate measures to prevent impairment of operation of existing sanitary sewer and storm sewer systems. Prevent construction material, concrete, earth, or other debris from entering sewer or sewer structure.

Divert sewage flow interfering with construction to sanitary sewers leading away from construction area. Prior to commencing excavation and construction of work impacting existing city sewer, submit to City Engineer for review, detailed plans, including routing and connections, required to handle and dispose of sanitary wastes. By reviewing the plan, the City Engineer neither accepts responsibility for adequacy thereof nor for damages to public or private property resulting there from, such responsibilities remain with the contractor.

Sanitary sewer damaged or removed during construction, which is to remain in service, shall be restored or replaced to original material and workmanship used for original construction.

All City of Madison manhole castings removed from sewer access structures (removed, abandoned, or swapped out with a casting elevation adjustment) shall be delivered to City Engineering's Service Building, 1600 Emil Street, Madison, WI 53713.

The costs to remove all abandoned utility pipes within the new sanitary sewer pipe trench or new sewer access structure excavation will be included in the unit price bid for the new pipe of the type, class and diameter used. The cost includes installing a concrete plug in the portion of the abandon pipe that remains in place after completion of sanitary sewer trench.

According to the City Standard Specifications, “Pipe to be removed that is in the same trench as a new pipe will not be compensated as remove pipe and will be considered to be incidental to the new pipe installation.” Same trench will be considered to be any pipe located with 3 feet horizontally of the pipe being installed.

City of Madison (sanitary sewer) has underground facilities located within the project area. Relocation of the underground facilities shall be accomplished as part of contract 3080-01-40 by the contractor. Existing facilities and anticipated proposed relocations are as follows:

- Millpond Road- extend sewer primarily in the center starting at the MMSD manhole at Long Drive (MH07-249) and extending east to Station 382+25’MP’.
- Install a 10-inch diameter sewer inside of a casing across USH 12/18 from Station 369+10’MP’ to Station 469+10’LD’.
- Install a 15-inch diameter sewer inside of a casing across USH 12/18 from Station 382+25’MP’ to Station 482+25’LD’.
- Install a 15-inch diameter sewer in Maahic Way from Station 482+25’LD’ to Station 486+20’LD’.
- Install a 15-inch diameter sewer in CTH AB from Station 486+20’LD’ to Station 538+50’AB’.

Sanitary sewer removals, replacements, and adjustments are included as part of the project as shown on the plans. Complete all work within the existing right-of-way. Coordinate operations with the City of Madison. Contact Mark Moder, (608) 261-9250.

24. Notice to Contractor – City of Madison Engineering – Lighting.

City of Madison Engineering – Lighting has two light poles in the median at the Millpond Road and USH 12/18 intersection and one light pole at the Yahara Hills Golf Course driveway. Maintain the existing light poles via the temporary lighting plan until Stage 4. Coordinate with City of Madison Engineering staff five days prior to de-energizing the poles. The City of Madison will salvage the existing lights.

25. Notice to Contractor – City of Madison Parks/Yahara Hills Golf Course.

Access to Yahara Hills Golf Course must be maintained during business hours.

City of Madison Parks has a private sanitary lateral located on the south side of Millpond Road which goes from the Yahara Hills Golf Course to MMSD’s manhole located at approximately 329+64’MP’ RT. Four sanitary manholes on this sanitary sewer lateral fall within the grading for Pond A. These sanitary manholes will be reconstructed during the project to match the new grades. The existing sanitary sewer lateral from the MMSD manhole located at approximately 329+64’MP’ RT to the manhole located at approximately 332+00’MP’ RT will be abandoned with slurry. Coordinate with City of Madison Parks representatives 7 days prior to starting work on the sanitary lateral.

Coordinate with City of Madison Parks representative 7 days prior to salvaging the golf course sign, moving the access gates along the south side of Millpond Road, and impacting the disc golf course.

Yahara Hills Golf Course contact information:

Theran Steindl
Golf Operations Supervisor
City of Madison Parks Division
6701 USH 12/18
Madison, WI 53718
Phone: (608) 295-4381
Email: tsteindl@cityofmadison.com

26. Notice to Contractor – Dane County Information Management.

Prior to beginning any work that may put the existing fiber optic line between EXCV540NB and EXCV445LD at risk, the new fiber optic conduit and cable system must be completed, and the reinstalled cable spliced back together.

Functionality of the fiber optic system may not be interrupted for more than 24-hours. Beginning when the existing cable is cut at EXCVAB185, the cable must be reinstalled in its new conduit and spliced back together in CVAB185S within a 24-hour period.

Coordinate the necessary fiber outage work with Michael Barger of Dane County at (608) 577-5546 or Barger@countyofdane.com.

27. Notice to Contractor – Dane County Landfill.

Trees along the south and east sides of the Dane County Landfill property provide screening for the landfill. Contractor shall mark out the limits of tree removals and get engineer approval prior to starting any tree removals.

Access to the landfill is required during business hours and emergency access to the gas facility is required at all times. Coordinate impacts to the Dane County Landfill daily operations with Operations Manager Paul Howard at (608) 444-7826 or Howard.Paul@countyofdane.com.

28. Notice to Contractor – Ho-Chunk Gaming Madison Contact.

The Ho-Chunk Gaming Madison project contact is Jon Warner, Ho-Chunk Casino Business Development Manager, at (608) 223-9576 Ext. 23610 or Jon.Warner@ho-chunk.com.

29. Notice to Contractor – Copart Property.

Copart plans to remove their existing fence, construct a new driveway, and install a new gate off Luds Lane. This new driveway needs to be operational prior to removing their existing access from USH 12/18. The Copart contact is Dan Privette, Copart Regional Property Manager, at (612) 417-0360 or dan.privette@copart.com.

30. Notice to Contractor – C&L Investment Partnership Property

The new driveway for the C&L Investment Partnership off CTH AB at Station 502+30'NB', RT needs to be constructed prior to removing their existing access from USH 12/18.

31. Notice to Contractor – WisDOT Soils Contact.

The WisDOT Southwest Region soils contact is Hassen Hassen, at (608) 516-6429 or Hassen.Hassen@dot.wi.gov.

32. Notice to Contractor – Groundwater Monitoring Data.

2021 groundwater monitoring data and geotechnical reports with groundwater elevations are available for review prior to bidding. Contact the WisDOT soils contact.

33. Notice to Contractor – Future Free Flow Bypass Lane.

Right-of-way was purchased to allow for a future free flow bypass lane to be constructed between Ramp A and Millpond Road. Place only suitable embankment materials outside the 1:1 along the south side of Ramp A east of Station 690+00'A', the west side of CTH AB between Ramp A and Millpond Road, and

along the north side of Millpond Road east of Station 390'MP'+00. Excess suitable embankment materials may be utilized to flatten the proposed 3:1 slopes.

34. Notice to Contractor – Marsh Excavation.

The contractor shall schedule a meeting with the engineer and the department's geotechnical engineer 10 business days prior to beginning work near the Flint Hills Resources, LLC (FHR) 8-inch high-pressure gas line along Ramp E. The contractor and the subcontractors for the grading work are required to attend this mandatory meeting.

The marsh excavation near the FHR 8-inch high-pressure gas line shall be completed in Stage 4 and the requirements are described below.

- A FHR representative shall be on site when work is being done within 25 feet of the pipeline.
- FHR recommends that equipment operators have prior high-pressure gas pipeline experience.
- Per WI State One Call Law, no mechanical excavation within 18 inches of the high-pressure gas pipeline.
- FHR requires that the exposed high-pressure gas pipeline be supported at a minimum of 20-foot sections during excavation work, typically supported with wooden or earthen materials or other suitable means.
- Backfill material around high-pressure gas pipeline to be Granular Backfill Grade 2.
- Compact backfill around high-pressure gas pipeline using 1 foot lifts.

35. Notice to Contractor – Optional Waste Site.

Follow standard spec 207 Embankment, for any waste material placed at the optional waste site provided in the plans.

36. Removing Chain Link Gate, Item 204.9060.S.01.

A Description

This special provision describes removing chain link gate conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Chain Link Gate in each, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.01	Removing Chain Link Gate	EACH

stp-204-025 (20150630)

37. Removing Existing Business Sign, Item 204.9060.S.02.

A Description

This special provision describes removing existing business signs conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Existing Business Sign in each, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.02	Removing Existing Business Sign	EACH

stp-204-025 (20150630)

38. Removing Existing Lighting Unit, Item 204.9060.S.03.

A Description

This special provision describes removing existing lighting unit conforming to standard spec 204.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Removing Existing Lighting Unit in each, acceptably completed.

E Payment

Add the following to standard spec 204.5:

ITEM NUMBER	DESCRIPTION	UNIT
204.9060.S.03	Removing Existing Lighting Unit	EACH

stp-204-025 (20150630)

39. Surcharge Earth Embankment.

The contractor shall schedule a meeting with the engineer and the department's geotechnical engineer 10 business days prior to beginning work along Maahic Way from Station 454+50'LD' to Station 459+50'LD'. The contractor shall discuss the embankment construction operations, locations of the settlement gauges, and schedule for the work. The contractor and the subcontractors for the grading work are required to attend this mandatory meeting.

The soils report estimates there will be 11 to 13 inches of settlement along Maahic Way from Station 454+50'LD' to Station 459+50'LD'. Most of the settlement is expected to occur over the course of the first 7 to 10 months. The embankment shall be placed in Stage 1A and the sequence of operations is described below.

- Strip shallow topsoil and remove shallow organic layer where present to the toe of slope of the final planned embankment, paid for as EBS. Estimated layer thickness of 0.5 to 3 feet.
- Install stabilization layer of 2 feet of Select Crushed Material over Geotextile Type SR.
- Install Settlement Gauges and take elevation readings, see Settlement Gauges special provision.
- WisDOT subsurface exploration unit will install an inclinometer at the north toe of slope near Station 458+00'LD' concurrently with the contractor installed Settlement Gauges. Contractor to coordinate with WisDOT subsurface exploration unit.
- Place fill north of Maahic Way prior to or concurrent with roadway embankment construction. Construct the area north of the roadway embankment to finished grade prior to the roadway embankment height exceeding the grade to the north.
- Construct the 4:1 fill slopes on both sides of Maahic Way during roadway embankment construction concurrently as grading proceeds vertically.
- Complete roadway embankment placement and take elevation readings, see Settlement Gauge special provision. Transmit Settlement Gauge survey data to WisDOT Bureau of Technical Services – Geotechnical Unit staff.

- After the settlement monitoring period is finished, regrade the area to the final proposed typical section, it is anticipated additional fill material will be required.
- Construct final pavement structure of Maahic Way, place salvaged topsoil, and complete finishing items.

40. Base Aggregate Dense ¾-Inch, Item 305.0110.

Revise standard spec 301.2.4.3 as follows:

Furnish aggregate classified as crushed stone, from a department-approved quarry, for ¾-Inch base when used in the top 3 inches of the unpaved portion of the shoulder or for unpaved driveways and field entrances.

(SWR 305.01-09212015)

41. Base Aggregate Dense 1 ¼-Inch, Item 305.0120.

Revise standard spec 305.2.2.1 when base is ≥ 50% crushed gravel as follows:

Use 1 ¼-Inch base aggregate that conforms to the following gradation requirements.

SIEVE	PERCENT PASSING BY WEIGHT
1 1/4 inch	95 - 100
1 inch	---
3/4 inch	70 - 90
3/8 inch	45 - 75
No. 4	30 - 60
No. 10	20 - 40
No. 40	7 - 25
No. 200	3 - 10 [1]

[1] Limited to a maximum of 8.0 percent for base placed between old and new pavement.

(SWR 305.02-08032016)

42. QMP Base Aggregate Dense 1 1/4-Inch Compaction, Item 371.2000.S.

A Description

(1) This special provision describes modifying the compaction and density testing and documentation requirements of work done under the Base Aggregate Dense 1 1/4-Inch bid items. Conform to standard spec 305 as modified in this special provision and to the contract QMP Base Aggregate article.

(2) Provide and maintain a quality management program. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process related to construction of dense graded base which meets all the requirements of this provision.

(3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes sampling and testing procedures.

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

(4) This special provision applies to Base Aggregate Dense 1 1/4-Inch material placed: above at least 16 inches of subgrade improvement, 12 inches of subgrade improvement and geogrid or QMP subgrade provisions, between shoulder hinge points and lower than mainline pavement. Unless otherwise specified by the contract, all Base Aggregate Dense 1 1/4-Inch material placed on side roads, private and public

entrances, individual ramps less than 1,500 feet, passing lanes less than 1,500 feet, tapers, turn lanes, and other undefined locations are exempt from the compaction and density requirement modifications and testing contained within this special provision.

B (Vacant)

C Construction

C.1 General

(1) The engineer shall approve the grade before placement of the base. Approval of the grade shall be according to applicable provisions of the standard specifications.

Add the following to standard spec 305.3.2.2:

(3) For 1 1/4-Inch dense graded base composed of < or = 20% reclaimed asphaltic pavement (RAP) or crushed concrete (RCA), as determined by classification of material (aggregate or RAP and/or RCA) and percentage by weight of each material type retained on the No. 4 Sieve, the contractor must determine the material target density according to:

Method 1: Maximum dry density according to AASHTO T-180, Method D, with correction for coarse particles and modified to require determination of Bulk Specific Gravity (Gm) according to AASHTO T 85. Bulk Specific Gravities determined according to standard spec 106.3.4.2.2 for aggregate source approval may be utilized.

(4) For 1 1/4-Inch dense graded base composed of >20% RAP or RCA, as determined by classification of material (aggregate or RAP and/or RCA) and percentage by weight of each material type retained on the No. 4 Sieve, the contractor may choose from the following options to determine the material target density:

Method 2: Maximum dry density as determined by AASHTO T-180, Method D, with correction for coarse particles, and modified to require determination of Bulk Specific Gravity (G_m) according to AASHTO T 85.

Method 3: Maximum wet density as determined by AASHTO T-180, Method D, modified to define *Maximum Density* as the wet density in pounds per cubic foot of soil at optimum moisture content using Method D specified compaction, with correction for coarse particles, and modified to require determination of Bulk Specific Gravity (G_m) according to AASHTO T 85.

Method 4: Average of 10 random control strip wet density measurements as described in section C.2.5.1.

(5) Compact the 1 1/4-Inch dense graded base to a minimum of 93.0% of the material target density for methods 1, 2 and 3. Compact 1 ¼-inch dense graded base to a minimum of 96% of the material target density for method 4. Ensure that adequate moisture is present during placement and compaction operations to prevent segregation and to help achieve compaction.

(6) Base Aggregate Dense 1 1/4-Inch will be accepted for compaction on a lot basis.

(7) Field density tests on materials using contractor elected target density methods 3 or 4 will not be considered for lot acceptance on the basis of compaction under the requirements of this provision until the moisture content of the in-place material is less than 2.0 percentage points above the maximum wet density optimum moisture or 2.0 percentage points of the average moisture content of the 10 density tests representing a control strip, respectively. Determine moisture content using AASHTO T255 as modified in CMM chapter 8 or a nuclear density gauge. If conducting AASHTO T255, sample materials after watering but before compaction.

C.2 Quality Management Program

C.2.1 Quality Control Plan

(1) Submit a comprehensive written quality control plan to the engineer no later than 10 business days before placement of material. Do not place any dense graded base before the engineer reviews and accepts the plan. Construct the project as the plan provides.

(2) Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:

1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.
3. A list of source locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
4. Descriptions of stockpiling and hauling methods.

5. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
6. Location of the QC laboratory, retained sample storage, and other documentation.
7. Lot layout and random test location plan.
8. A description of placement methods and operations. Including, but not limited to: staging, construction of an initial working platform, lift thicknesses, and equipment.

C.2.1 Pre-Placement Meeting

A minimum of two weeks before placement of Base Aggregate Dense 1 1/4-Inch material, hold a pre-placement meeting at a mutually agreed upon time and location. Present the Quality Control Plan at the meeting. Attendance at the pre-placement meeting is mandatory for the project superintendent, quality control manager, project inspection and testing staff, all appropriate contractor personnel involved in the sampling, testing, and quality control including subcontractors, and the engineer or designated representatives.

C.2.2 Personnel

(1) Perform the quality control sampling, testing, and documentation required under this provision using technicians certified by the department's Highway Technician Certification Program (HTCP). Have a HTCP Nuclear Density Technician I, or ACT certified technician, perform field density and field moisture content testing. Adhere to the minimum required certifications for aggregate testing per part 7 of the standard specification. AASHTO T180 proctor testing requires a minimum certification level of AGGTEC-1.

(2) If an ACT is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

C.2.3 Equipment

(1) Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.

(2) Furnish nuclear gauges from the department's approved product list at:

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

(3) Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

(4) For all target density methods, conform to AASHTO T310 and CMM 8-15 for wet density testing and gauge monitoring methods.

(5) For the specified target density determined using method 1 in section C.1, compute the dry densities for the compacted dense graded base, composed of < or = 20% RAP or RCA, according to AASHTO T310.

(6) For contractor elected target density method 2 in section C.1, compute dry densities of dense graded base composed of >20% RAP or RCA using a moisture correction factor and the nuclear wet density value. Determine the moisture correction value, for each Proctor produced under the requirements of C.2.5, using the moisture bias as shown in CMM 8.15.12.1 and 8.15.12.2, except the one-point Proctor tests of the 5 random tests is not required. Conduct a moisture bias test for every 7,500 feet of Base Aggregate Dense 1 1/4-Inch placed. Determine natural moistures in the laboratory.

(7) Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Backscatter may be used only if the material being tested cannot reliably maintain an undistorted direct transmission test hole. Direct transmission tests must be performed at the greatest possible probe depth of 2 inches, 4 inches, or 6 inches, but not to exceed the depth of the compacted layer being tested. Perform each test for at least one minute of nuclear gauge count time.

C.2.5 Contractor Testing

(1) Perform compaction testing on the mainline dense graded base material, as defined by A.(4). Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians as required in C.2.3. Conform to CMM 8-15 for testing and gauge monitoring methods.

(2) Select test sites randomly using ASTM Method D3665. Random numbers may be determined using an electronic random number generator. Guidance for determining test locations can be found in section 8-30.9 of the Construction and Materials Manual (CMM). Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.

(3) When a density target is determined in accordance methods 3 or 4 in section C.1, conduct density testing on same date of final compaction.

C.2.5.1 Contractor Required Quality Control (QC) Testing

(1) Conduct testing at a minimum frequency of one test per lot. A lot is 1,500 feet for each layer with a maximum width of 18 feet, minimum width of 6 feet, and minimum lift thickness of 2" of Base Aggregate Dense 1 1/4-Inch material placed. Each lot of compacted Base Aggregate Dense 1 1/4-Inch material, as defined by A.(4), will be accepted when the lot field density meets the required minimum density. Lots that don't achieve density requirements must be addressed and approved according to C.2.7.

(2) Add separate lots for passing lanes and individual ramps greater than 1,500 feet.

(3) Combine partial lots less than 750 feet with the previous lot. Partial lots greater than or equal to 750 feet are standalone lots.

(4) Notify the engineer if a lot field density test falls below the required minimum value. Document and perform corrective actions according to C.2.7. Deliver documentation of all compaction testing results to the engineer at the time of testing.

C.2.5.1.1 Target Density Determination

C.2.4.1.1.1 Maximum Wet and/or Dry Density Methods

(1) For contractor elected target density methods 2 and 3 in section C.1, and contractually specified target density method 1 in section C.1; perform one gradation and 5-point Proctor test before placement of 1 ¼-Inch dense graded base. Perform additional gradations every 3,000 tons according to standard spec 305 and 730. If sampling requirements are identical, samples/testing performed for the QMP Base Aggregate specification may be used to fulfill the gradation testing requirements of this specification.

(2) Perform additional 5-point Proctor tests, at a minimum, when:

1. The four point moving average gradation on any one sieve differs from the original gradation test result for that sieve, by more than 10 percentage points. The original gradation test is defined as the gradation of the material used to create a 5-point Proctor. Each 5-point Proctor test will remain valid for any material with gradation for all sieves within 10.0 percentage points of that Proctor's original gradation test.
2. The source of base aggregate changes.
3. Percent target density exceeds 103.0% on two consecutive density tests.

(3) Provide Proctor test results to the engineer within two business days of sampling. Provide gradation test results to the engineer within one business day of sampling.

(4) Split each contractor QC Proctor sample and identify it according to CMM 8-30. Deliver the split to the engineer within one business day for department QV Proctor testing.

(5) Split each non-Proctor contractor QC sample and identify it according to CMM 8-30. Retain the split for 7 calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.

C.2.5.1.1.2 Density Control Strip Method

(1) For contractor elected target density method 4 in section C.1, construct a control strip for each layer of placement to identify the target wet density for the base aggregate dense material. The control strip construction and density testing will occur under the direct observation and/or assistance of the department QV personnel. For blended material, reprocessed material and crushed concrete, perform additional gradations every 3,000 tons according to standard spec 305 and 730. If sampling frequencies are identical, samples/testing performed for the QMP Base Aggregate specification may be used to fulfill the gradation testing requirements of this specification.

(2) Unless the engineer approves otherwise, construct control strips to a minimum dimension of 300 feet long and one full lane width.

(3) Completed control strips may remain in-place to be incorporated into the final roadway cross-section.

(4) Construct additional control strips, at a minimum, when:

1. The source of base aggregate changes.
2. The four point moving average percentage of blended recycled materials, from classification of material retained on the No. 4 sieve in the original gradation test, differs by more than 10 percentage points. The original gradation test is defined as the gradation of the material used to construct the control strip.
3. The layer thickness changes more than 2.0 inches.
4. The percent target density exceeds 103.0% on two consecutive density measurements.

(5) Construct control strips using equipment and methods representative of the operations to be used to place and compact the remaining 1 1/4–Inch Base Aggregate Dense material. Wet the base, as mutually agreed upon by the contractor and engineer, to obtain and/or maintain adequate moisture content to ensure proper compaction. Discontinue water placement if the base begins to exhibit signs of saturation or instability.

(6) After compacting the control strip with a minimum of 2 passes, mark and take density measurements at 3 random locations. Subsequent density measurements will be taken at the same 3 locations. Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.

(7) After each subsequent pass of compaction equipment over the entirety of the control strip, take wet density measurements at the 3 marked locations. Continue compacting and testing until the increase in wet density measurements are less than 2.0 lb/ft^3, or the density measurements begin to decrease.

(8) Upon completion of control strip compaction, take 10 randomly located wet density measurements within the limits of the control strip. The final measurements recorded at the 3 locations under article C.2.4.1.1.2 may be included as 3 of the 10 measurements. Average the ten measurements to obtain the control strip target density and target moisture for use in contractor elected method 4 in section C.1. Test locations must be kept a minimum of 3 feet from the unsupported edge of dense graded base layers.

C.2.6 Department Testing

C.2.6.1 General

(1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project and provide test results to the contractor within two business days after the department obtains the sample.

(2) When a density target is determined in accordance methods 3 and 4 in section C.1, conduct density testing on same date of final compaction.

C.2.6.2 Quality Verification (QV) Testing

(1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.2.3 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

(2) The department will conduct QV tests at the minimum frequency of 20% of the required gradation, density and Proctor contractor tests.

(3) The department will utilize contractor’s QC Proctor results for determination of the material target density. The department will verify QC Proctor values by testing QC Proctor split sample. The department will use QC Proctor value as a target density if the QC and QV Proctor test results meet the tolerance requirements specified in section C.2.6.2(7).

(4) The department will locate gradation and nuclear density test samples, at locations independent of the contractor’s QC work, collecting one sample at each QV location. Sampling for gradation may be done independently of nuclear density tests, before watering and before compacting. The department will split each QV sample, test half for QV, and retain the remaining half for 10 calendar days.

(5) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor’s QC tests. The department will use the same methods specified for QC testing.

(6) The department will utilize control strip target density testing results in lieu of QV Proctor sampling and testing when the contractor elected target density method 4 in section C.1 is used.

(7) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If QV test results are nonconforming, take corrective actions according to C.2.7 until the requirements of this special provision are met. Differing QC and QV nuclear density values of more than 2.0 pcf will be investigated and resolved. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.2.6.3 Independent Assurance (IA)

(1) Independent assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing, including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

1. Split sample testing.
2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. Requesting that testing personnel perform additional sampling and testing.

(2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.2.6.4.

C.2.6.4 Dispute Resolution

(1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor shall review the data, examine data reduction and analysis methods, evaluate sampling and testing methods/procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

(2) Production test results, and results from other process control testing, may be considered when resolving a dispute.

(3) If project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.2.7 Corrective Action

(1) Lots not achieving the minimum density requirements may be addressed and accepted for compaction according to the requirements of this section. Unless directed by the engineer, corrective actions taken to address an unacceptable lot must be applied to the entire lot corresponding to the non-conforming test.

(2) Investigate the moisture content of material in an unacceptable lot. Moisture content testing/samples collected under the QC and/or QV testing articles of this specification may be used to complete this investigation. Obtain moisture content readings according to ASTM D 6938. For material composed of >20% RAP or RCA, correct the moisture content with the moisture correction value using the moisture bias, as shown in CMM 8.15.12.1 and 8.15.12.2, except the one-point Proctor tests of the 5 random tests is not required.

(3) Lots with moisture contents within 2.0 percentage points of optimum moisture for target density methods 1, 2 and 3 in section C.1, or within 2.0 percentage points of the target moisture content for target density method 4 in section C.1, and exhibiting no signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, shall be compacted a minimum of one more pass using equipment and methods representative of the operations used to place and compact the Base Aggregate Dense 1 1/4–Inch, and density tested at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft^3 continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft^3, the lot is accepted as satisfying the compaction requirements of this provision.

(4) Lots with moisture contents within 2.0 percentage points of optimum moisture for target density methods 1, 2, or 3 in section C.1, or within 2.0 percentage points of the target moisture content for target density method 4 in section C.1 and exhibiting signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, will be reviewed by the engineer. The engineer may request subgrade improvement methods, such as excavation below subgrade (EBS), installation of geotextile fabrics, installation of breaker run material, or others to be completed, or may request an additional pass of compactive effort using equipment and methods representative of the operations used to place and compact the base aggregate dense and density test.

1. If, after an additional pass, the change in density at the same location (station and offset) as the failing QC and/or QV density tests exceeds 2.0 lb/ft^3 in a lot continue subsequent compactive efforts and density testing on that lot. If the change in density at the same location (station and offset) as the failing QC and/or QV density tests is less than or equal to 2.0 lb/ft^3, and subgrade improvement methods are not requested by the engineer, the lot is accepted as satisfying the compaction requirements of this provision.
2. If subgrade improvement methods are requested by the engineer, upon completion, including compaction of the restored base material, conduct a density test within the improved subgrade limits. This density test result will replace the prior field density value. If the lot field density equals or exceeds the minimum density requirement defined in section C.1, the lot is accepted as satisfying the compaction requirements of this provision. If the lot field density fails to achieve the minimum density requirement defined in section C.1, compact the lot a minimum of one more pass using equipment and methods representative of the operations used to place and compact the base aggregate dense; and density test at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft^3 continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft^3, the lot is accepted as satisfying the compaction requirements of this provision.

(5) Unacceptable lots, with moisture contents in excess of 2.0 percentage points above or below optimum moisture for target density methods 1, 2 or 3 in section C.1; or in excess of 2.0 percentage points above or below the target moisture content for target density method 4 in section C.1; shall receive contractor performed and documented corrective action; including additional density testing.

(6) Density tests completed subsequent to any corrective action will replace previous field density test results for that lot. Continue corrective actions until the minimum density requirement is achieved or an alternate compaction acceptance criteria is met according to this section.

(7) Field moisture contents of materials tested using contractor elected target density methods 3 or 4 in section C.1 cannot exceed 2.0 percentage points of the optimum moisture content or 2.0 percentage points of the target moisture content, respectively. Density tests on materials using contractor elected target density methods 3 or 4 in section C.1 will not be considered for lot compaction acceptance until the moisture content of the corresponding density test of the in-place material is less than 2.0 percentage points above of the optimum moisture content or 2.0 percentage points of the target moisture content, respectively.

D Measurement

(1) The department will measure the QMP Base Aggregate Dense 1 1/4-Inch Compaction bid item by each lot, acceptably completed per C.2.5.1.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH

(2) Payment is full compensation for performing compaction testing; for sampling and laboratory testing; and for developing, completing, and documenting the compaction quality management program. The department will pay separately for providing aggregate under the Base Aggregate Dense 1 1/4-Inch bid item.

(3) The department will pay for additional tests directed by the engineer. One engineer directed test is equal to one acceptably completed lot of the QMP Base Aggregate Dense 1 1/4 -Inch Compaction bid item. The department will not pay for additional corrective action tests required due to unacceptable material.

stp-370-010 (20210113)

43. 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://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/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 sublot 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 sublot 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 sublot. Testing in a previously accepted sublot 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 sublot 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 sublot and lot densities.

(6) If two consecutive sublot 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 sublot 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 sublot using the same testing requirements and frequencies as the QC tester.

(3) If the verification sublot average is not more than one percent below the specified minimum target density, use the QC tests for acceptance.

(4) If the verification sublot average is more than one percent below the specified target density, compare the QC and QV sublot averages. If the QV sublot average is within 1.0 lb/ft^3 of the QC sublot average, use the QC tests for acceptance.

(5) If the first QV/QC sublot average comparison shows a difference of more than 1.0 lb/ft^3 each tester will perform an additional set of tests within that sublot. Combine the additional tests with the original set of tests to compute a new sublot average for each tester. If the new QV and QC sublot averages compare to within 1.0 lb/ft^3, use the original QC tests for acceptance.

(6) If the QV and QC sublot averages differ by more than 1.0 lb/ft^3 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 sublot density test results or retesting of the sublot 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)

44. Ice Hot Weather Concreting, Item 501.1000.S.

Conform to standard spec 501.3.8.2 except the department will pay for ice at the contract unit price under the Ice Hot Weather Concreting bid item. This special provision only applies to work done under the following contract bid items:

Concrete Masonry Bridges	Concrete Masonry Retaining Walls
Concrete Masonry Bridges HES	Concrete Masonry Retaining Walls HES
Concrete Masonry Culverts	Concrete Masonry Endwalls
Concrete Masonry Culverts HES	Concrete Masonry Overlay Decks
Concrete Barrier Single-Faced 32-Inch	Concrete Barrier (type)
Concrete Barrier Double-Faced 32-Inch	Concrete Barrier Fixed Object Protection (type)
Concrete Barrier Transition Section 32-Inch	Concrete Barrier Transition (type)

Replace standard spec 501.4 and 501.5 with the following:

501.4 Measurement

(1) The department will measure Ice Hot Weather Concreting by the pound, acceptably completed, measured only if the conditions prescribed in standard spec 501.3.8.2 are met.

501.5 Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
501.1000.S	Ice Hot Weather Concreting	LB

(2) Payment for Ice Hot Weather Concreting is full compensation for ice used to cool concrete placed in hot weather as specified in standard spec 501.3.8.2.

(3) The department will not pay directly for the concrete specified under this section. Concrete is incidental to the various bid items using it. Payment under those bid items includes providing all materials, including aggregates and associated aggregate source testing, cement, fly ash, slag, and admixtures; and for preparing, transporting, storing, protecting and curing concrete.

(4) If required to remove and replace any concrete damaged by lack of proper protection. Perform this work at no expense to the department.

stp-501-010 (20210708)

45. Special High Early Strength Concrete Pavement Repair and Replacement.

Replace standard spec 416.2.3.2, paragraph (3), sentence 1 with the following:

(3) Achieve a minimum compressive yield strength of 3,000 psi for special high early strength concrete prior to opening to traffic by the times described in the “Traffic” article of these special provisions under Permitted Lane / Ramp Closures.

Replace standard spec 416.3.8.2, paragraph (1), sentence 1 with the following:

(1) Place, cure and open special high early strength concrete to traffic by the times described in the “Traffic” article of these special provisions under Permitted Lane / Ramp Closures.

Replace standard spec 416.3.8.3, paragraph (1), sentence 1 with the following:

(1) Place, cure and open special high early strength concrete to traffic by the times described in the “Traffic” article of these special provisions under Permitted Lane / Ramp Closures.

46. Bar Steel Reinforcement HS Stainless Structures, Item 505.0800.S.

A Description

This special provision describes furnishing and placing stainless steel reinforcing bars and associated stainless steel bar couplers.

Conform to standard spec 505 as modified in this special provision.

B Materials

B.1 General

Furnish stainless steel reinforcing bars conforming to ASTM A955 and to one of the following Unified Numbering System (UNS) designations: S31653, S31803, S32205, or S32304. Supply grade 60 bars, all of the same UNS designation. Conform to the chemical composition specified for the given UNS designation in ASTM A276 table 1.

Supply bars that are free of dirt, mill scale, oil, and debris by pickling to a bright or uniform light finish. The department may reject bars displaying rust/oxidation, questionable blemishes, or lack of a bright or uniform pickled surface.

Furnish chairs or continuous supports made of stainless steel or recycled plastic to support high-strength stainless bar steel reinforcement subject to the plastic chair restriction stated in standard spec 505.3.4(1).

Furnish couplers made from one of the UNS alloys allowed for bar steel.

Furnish tie wire made from one of the UNS alloys allowed for bar steel or from an engineer-approved plastic or nonmetallic material. Ensure that stainless steel tie wire is dead soft annealed.

B.2 Fabrication

Before fabrication, supply test results from an independent testing agency certifying that the reinforcement meets the requirements of Annex A1 of ASTM A955.

Bend bars conforming to standard spec 505.3.2 and according to ASTM A955. Bend and cut bars using equipment thoroughly cleaned or otherwise modified to prevent contamination from carbon steel or other contaminants. Use tools dedicated solely to working with stainless steel.

B.3 Control of Material

Identify reinforcement bars delivered to the project site with tags bearing the identification symbols used in the plans. Include the UNS designation, heat treat condition, heat number, grade corresponding to minimum yield strength level, and sufficient documentation to track each bar bundle to a mill test report.

Provide samples for department testing and acceptance according to CMM 8-50 Exhibit 1 requirements for concrete masonry reinforcement for uncoated bar steel.

Provide mill test reports for the project that do the following:

1. Verify that sampling and testing procedures and test results conform to ASTM A955, ASTM A276 table 1, and these contract requirements.
2. Include a chemical analysis with the UNS designation, heat lot identification, and the source of the metal.
3. Include tensile strength, yield strength, and elongation tests results conforming to ASTM A955 for each size furnished.
4. Certify that the bars have been pickled to a bright or uniform light finish.

C Construction

C.1 General

Ship, handle, store, and place the stainless steel reinforcing as follows:

1. Separate from regular reinforcement during shipping. Pad points of contact with steel chains or banding, or secure with non-metallic straps.
2. Store on wooden cribbing separated from regular reinforcement. Cover with tarpaulins if stored outside.
3. Handle with non-metallic slings.
4. Do not flame cut or weld. Protect from contamination when cutting, grinding, or welding other steel products above or near the stainless steel during construction.
5. Place on plastic or stainless steel bar chairs. If placing stainless steel chairs on steel beams, use chairs with plastic-coated feet.
6. Tie with stainless steel wire or an engineer-approved plastic or nonmetallic material.

Do not tie stainless steel reinforcing bars to, or allow contact with, uncoated reinforcing bars or galvanized steel. Maintain at least 1 inch clearance between stainless steel bars or dowels and uncoated or galvanized steel. Where 1 inch clearance is not possible, sleeve bars with a continuous polyethylene or nylon tube at least 1/8 inch thick extending at least 1 inch in each direction and bind with nylon or

polypropylene cable ties. Sleeves are not required between stainless steel bars and shear studs. Stainless steel bars can be in direct contact with undamaged epoxy-coated bars.

Cut flush with the top flange or remove uncoated fasteners, anchors, lifting loops, or other protrusions into a bridge deck before casting the deck on prestressed concrete beams.

C.2 Splices

Splice as the plans show. Provide stainless steel couplers conforming to the minimum capacity, certification, proof testing, and written approval requirements of standard spec 550.3.3.4. The contractor may substitute stainless steel couplers for lap slices the plans show if the engineer approves in writing.

If increasing or altering the number or type of bar splices the plans show, provide revised plan sheets to the engineer showing the reinforcement layout, type, length, and location of revised bar splices and revised bar lengths. Obtain engineer approval for the location of new lap splices or substitution of mechanical bar couplers before fabrication. Ensure that new lap splices are at least as long as those the plans show.

D Measurement

The department will measure Bar Steel Reinforcement HS Stainless Structures by the pound, acceptably completed, computed from the nominal weights of corresponding sizes for carbon steel deformed bars in AASHTO M31 regardless of stainless steel alloy provided. The department will not measure extra material used if the contractor alters the reinforcement layout as allowed under C.2, extra material for splices or couplers the plans do not show, or the weight of devices used to support or fasten the steel in position.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB

Payment for Bar Steel Reinforcement HS Stainless Structures is full compensation for furnishing and placing stainless steel reinforcing bars, including supports. Where the plans specify bar couplers, the department will pay for the length of bars as detailed with no deduction or increase for installation of the coupler.

stp-505-005 (20190618)

47. Concrete Staining B-13-0893, Item 517.1010.S.01; Concrete Staining R-13-0370, Item 517.1010.S.02; Concrete Staining R-13-0371, Item 517.1010.S.03.

A Description

This special provision describes providing a two coat concrete stain on the exposed concrete surfaces of structures as the plans show.

B Materials

B.1 Mortar

Use mortar for sack rubbing the concrete surfaces as given in standard spec 502.3.7.5 or use one of the following products:

Preblended, Packaged Type II Cement:	Tri-Mix by TK Products
	Thoroseal Pearl Gray by Thoro Products

The mortar shall contain one of the following acrylic bonding admixtures mixed and applied according to manufacturer’s recommendations:

Acrylic Bonding Admixture:	TK-225 by TK Products
	Achro 60 by Thoro Products
	Achro Set by Master Builders

B.2 Concrete Stain

Use concrete stain manufactured for use on exterior concrete surfaces, consisting of a base coat and a pigmented sealer finish coat. Use the following products, or equal as approved by the department, as part of the two coat finish system:

Tri-Sheen Concrete Surfacer, Smooth by TK Products

Tri-Sheen Acrylic by TK Products

TK-1450 Natural Look Urethane Anti-Graffiti Primers by TK Products

Safe-Cure & Seal EPX by Chem Masters

H&C Concrete Stain Solid Color Water Based by Sherwin-Williams

C Construction

C.1 General

Furnish, prepare, apply, cure, and store all materials according to the product manufacturer's specifications for the type and condition of application required.

Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, before staining.

C.2 Preparation of Concrete Surfaces

Provide a sack rubbed finish as specified in standard spec 502.3.7.5, using mortar as indicated above on concrete surfaces with open voids or honeycombing.

Following the sack rubbing, clean all concrete surfaces that are to be coated to ensure that the surface is free of all laitance, dirt, dust, grease, efflorescence, and any foreign material and that the surface will accept the coating material according to product requirements. As a minimum, clean the surface using a 3,000-psi water blast. Hold the nozzle of the water blaster approximately 6 inches from the concrete surface and move it continuously in a sweeping motion. Give special attention to smooth concrete surfaces to produce an acceptable surface texture. Correct any surface problems resulting from the surface preparation methods. Grit blasting of the concrete surface is not allowed.

C.3 Staining Concrete Surfaces

Apply the concrete stain according to the manufacturer's recommendations.

Apply the concrete stain when the temperature of the concrete surface is 45º F or higher, or as given by the manufacturer.

The color of the stain shall be as given on the plan. Tint the base coat to match the finish coat; the two coats shall be compatible with each other.

Do not begin staining the structure until earthwork operations are completed to a point where this work can begin without receiving damage. Where this work is adjacent to exposed soil or pavement areas, provide temporary covering protection from overspray or splatter.

C.4 Test Areas

Before applying stain to the structure, apply the stain to sample panels measuring a minimum of 48 inches x 48 inches and constructed to demonstrate workmanship in the use of the form liner specified on the structure if applicable. Match or exceed the stain manufacturer's minimum recommended curing time of the concrete or 28 days, whichever is greater, before staining. Prepare the concrete surfaces of the sample panels and apply stain using the same materials and in the same manner as proposed for the structure, including staining of the joints between the stones produced by the form liner if applicable. Do not apply stain to the structure until the department approves the test panels.

C.5 Surfaces to be Coated.

Apply concrete stain to the surfaces according to the plan.

D Measurement

The department will measure Concrete Staining B-13-0893, R-13-0370, and R-13-371 in area by the square foot of surface, acceptably prepared and stained.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1010.S.01	Concrete Staining B-13-0893	SF
517.1010.S.02	Concrete Staining R-13-0370	SF
517.1010.S.03	Concrete Staining R-13-0371	SF

Payment is full compensation for furnishing and applying the two coat system; for preparing the concrete surface; and for preparing the sample panels.

stp-517-110 (20140630)

48. Architectural Surface Treatment B-13-0893, Item 517.1050.S.01; Architectural Surface Treatment R-13-0370, Item 517.1050.S.02; Architectural Surface Treatment R-13-0371, Item 517.1050.S.03.

A Description

This special provision describes providing a concrete masonry architectural surface treatment on the exposed concrete surfaces of structures as the plan details show.

B Materials

Use form liners that attach easily to the forming system, and do not compress more than 1/4 inch when poured at a rate of 10 vertical feet/hour.

Use a release agent that is compatible with the form liner and coloring materials.

Wall ties shall have set "break-backs" at a minimum of 3/4 inches from the finished concrete surface.

C Construction

C.1 Equipment

Equipment and tools necessary for performing all parts of the work shall be satisfactory as to design, capacity, and mechanical condition for the purposes intended. Repair, improve, replace, or supplement all equipment that is not maintained in full working order, or which is proven inadequate to obtain the results prescribed.

C.2 Form Liner Preparation

Clean the form liner before each pour and ensure that it is free of any build-up. Visually inspect each liner for blemishes or tears, and repair if necessary, per manufacturer’s recommendations.

Apply form release per manufacturer’s recommendations.

C.3 Form Liner Attachment

Place adjacent liners less than 1/4 inch from each other, attach liner securely to forms according to the manufacturer’s recommendations, and coordinate wall ties with form liner and form manufacturer, e.g., diameter, size, and frequency.

C.4 Surface Finishing

Ensure that the textured surface is free of laitance; sandblasting is not permitted.

Grind or fill pouring blemishes.

D Measurement

The department will measure Architectural Surface Treatment B-13-0893, B-13-0370, and B-13-371 in area by the square foot of architectural surface, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
517.1050.S.01	Architectural Surface Treatment B-13-0893	SF
517.1050.S.02	Architectural Surface Treatment R-13-0370	SF
517.1050.S.03	Architectural Surface Treatment R-13-0371	SF

Payment is full compensation for producing the proposed architectural surface treatment including: preparing the foundation; finishing and protecting the surface treatment; and for properly disposing of surplus material.

stp-517-150 (20110615)

49. General Provisions for City of Madison Storm Sewer.

The provisions for this storm sewer apply to all storm sewer work within Millpond Road and Maahic Way.

Construct all round and elliptical shape storm sewers according to the pertinent provisions of standard spec 608, and 611 as shown on the plans, and as follows.

Prior to ordering drainage pipes and structures, verify related drainage information in the plan with the engineer. This shall include all information obtained from the bid item "Utility Line Opening" (ULO).

Seal the joints for reinforced concrete pipe with either mastic or internal rubber gaskets as described in standard spec 608.3.4. The use of mortar as a pipe joint method is prohibited.

Lay all round and elliptical shape storm sewers on a 6-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2 or when water is encountered, No. 1 coarse concrete aggregate according to standard spec 501.2.7.4. Bedding for round and elliptical pipe shall be incidental to the installation costs of the round or elliptical pipe.

Construct catch basins, manholes and inlets using only precast or cast in place concrete masonry options. All structures shall be reinforced concrete. Concrete brick and block options are prohibited.

Construct all structures (manholes and inlets) on a 12-inch minimum thick bed of Base Aggregate Dense Graded 1 1/4-Inch according to standard spec 305.2 or when water is encountered, and No. 1 coarse concrete aggregate according to standard spec 501.2.5.4. Bedding for structures shall be incidental to the installation costs of the structure.

Bid all structures (manholes and inlets) as field poured and construct all structures as field-poured unless the contractor receives approval of the City of Madison design engineer to precast the structures, Precast structures shall be allowed under the requirements of Section 507.3(b) of the City of Madison Standard Specifications for Public Works Construction, current edition. This approval will not be given until it can be confirmed that the proposed design will fit existing conditions including possible utility conflicts. No precast approval shall be authorized for any structure until such time as all ULO's that could affect the structure/structures in question have been completed and sufficient time is allowed for potential redesign of the system, if options to avoid utility conflicts are available.

Submit shop drawings for all precast structures to the City of Madison design engineer. Under no circumstance shall a precast structure be brought to or used on the construction site without a written approval of the shop drawing for that structure prior to its use on site.

Do not use station and offset for inlet structures, as given on the storm plans, for final layout of the structure. Determine the curb line in the area of the inlet prior to pouring the inlet structure to assure proper location of the inlet relative to the curb line.

The costs to connect storm sewer to existing structures or pipes and the costs to plug pipes for future use including tapping the hole, placing the pipe and sealing the joint, furnishing and installing a plugging device as specified above, will be incidental to the unit price bid for the pipe of the type, class and diameter used. The cost includes installing a concrete plug in the portion of the abandon pipe that remains in place after completion of storm sewer trench.

Carefully remove and stockpile all existing inlet, manhole, and catch basin covers that are not being adjusted and reused on the project at a location on the right-of-way outside the construction limits for pickup by City of Madison personnel. Contact Chris Scharf, City of Madison Department of Public Works at (608) 267-1973 or cscharf@cityofmadison.com to schedule pickup.

The contractor will be required to remove and dispose, to a location provided by the contractor, any unwanted castings, frames, and grates that the city does not wish to salvage.

50. Manhole Covers Type J-Special.

Perform this work according to standard spec 611 and as hereinafter provided.

Provide castings according to standard spec 611 and Article 507 of the City Standard Specifications and as shown on the plans. Provide lids with logo per City Standard Specifications Standard Detail Drawing 5.7.16.

51. Cover Plates Temporary, Item 611.8120.S.

A Description

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

B Materials

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

C (Vacant)

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	EACH

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

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

stp-611-006 (20151210)

52. Pipe Grates, Item 611.9800.S.

A Description

This special provision describes providing pipe grates on the ends of pipes.

B Materials

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel pipe conforming to the requirements of standard spec 506.2.3.6.

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction

Repair pipes, rods, angles and brackets on which the galvanized coating has been damaged according to the requirements of AASHTO M36M.

D Measurement

The department will measure Pipe Grates in units of work, where one unit is one grate, completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
611.9800.S	Pipe Grates	EACH

Payment is full compensation for furnishing and installing all materials; and for drilling and connecting grates to pipes.

stp-611-010 (20030820)

53. Gates Wood Single Leaf, 16-FT, Item 616.0350.S.

A Description

This special provision describes providing wood gates according to the plan details.

B Materials

Furnish structural lumber and timber conforming to standard spec 507. Treat structural lumber and timber by the pressure process conforming to standard spec 507.2.2.6, except do not use creosote-coal tar or pentachlorophenol.

Furnish bolts, nuts and washers according to ASTM F3125.

Furnish hardware and miscellaneous steel plates conforming to ASTM A36M. Paint miscellaneous steel plates with a catalyzed (two component) black epoxy paint over a zinc rich primer conforming to standard spec 517.

Furnish zinc coated bolt hooks manufactured by Stanley, Lawrence Brothers, or an approved equal.

C (Vacant)

D Measurement

The department will measure Gates Wood Single Leaf, 16-FT as each gate, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0350.S	Gates Wood Single Leaf, 16-FT	EACH

Payment is full compensation for providing gates.

stp-616-035 (20030820)

54. Fence Safety, Item 616.0700.S.

A Description

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

B Materials

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

Furnish fence fabric meeting the following requirements.

Color:	International orange (UV stabilized)
Roll Height:	4 feet
Mesh Opening:	1 inch min to 3 inch max
Resin/Construction:	High density polyethylene mesh
Tensile Yield:	Avg. 2,000 lb per 4 ft. width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3,000 lb per 4 ft. width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

C Construction

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

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

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

D Measurement

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

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

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

stp-616-030 (20160607)

55. Seeding.

Add the following to standard spec spec 630.2.1.5.1.1:

Table 630-3 may be used for the mixtures provided in the table:

TABLE 630-3 (OPTIONAL SEED MIXTURES)

SPECIES COMMON NAME (Acceptable Varieties)	SPECIES BOTANICAL NAME	PURITY minimum %	GERMINATION minimum %	MIXTURE PROPORTIONS (in percent) Two options for each mix type							
				NO.10		NO.20		NO.30		NO.40	
				#1	#2	#1	#2	#1	#2	#1	#2
Kentucky Bluegrass (Low Maintenance)	Poa pratensis	98	85	40	42	6	6	10	13	35	35
* Red Fescue (Creeping)	Festuca rubra	97	85	10	13	5	7	15	15	10	15
Hard Fescue (Improved)	Festuca ovina var. duriuscula	97	85			24	22	25	25	20	20
Tall Fescue (Improved Turf Type)	Festuca arundinacea	98	85			40	40				
Salt Grass (Fult's or Salty)	Puccinella distans	98	85					15	15		
Redtop	Agrostis alba	92	85	5	5						
Perennial Ryegrass	Lolium perenne	96	85	25	30	25	25	25	32	25	30
White Clover	Triflium repens	95	90	10	10						
Chewings Fescue	Festuca rubra var. commutata	98	85	10				10		10	
Sheep's Fescue	Festuca ovina	97	85								

* A blend of fescue type will be permitted to achieve the specified Red Fescue (Creeping) percentage using any of the following varieties as substitutes:

Red Fescue (Creeping)
Hard Fescue (Improved)
Chewings Fescue
Sheep's Fescue

56. Signs and Supports.

Revise standard spec 638.1 as follows:

This section describes moving, removing, revising, or erecting state and City of Madison owned signs and supports.

57. Blue Specific Service Signs.

Add the following to standard spec 638.3.4:

Do not remove or move blue specific service signs or their associated posts. Specific service signs are signs with logos that identify commercial entities providing gas, food, lodging, camping, or attractions. A separate contractor, Interstate Logos - Wisconsin, is responsible for these signs. Contact Interstate Logos - Wisconsin at (844) 496-9163 a minimum of 14 calendar days in advance to coordinate removing, moving, or re-installation of these signs.

The contractor is responsible for damage done to these signs due to contractor operations.

stp-638-010 (20150630)

58. Pond Liner Clay, Item 640.1303.S.

A Description

This special provision describes furnishing and installing clay liner in areas shown on the plans.

B Materials

For each source, prior to excavating and hauling the clay liner to the project, submit the results of the laboratory source screening tests described in Table 1. Laboratory test results of the clay must meet or exceed the requirements before placing material.

Submit source screening test results to the engineer for review, two weeks prior to clay placement.

C Construction

C.1 Clay Liner

C.1.1 Subgrade

Compact the subgrade to the minimum density using standard spec 207.3.6.2 Standard Compaction, or as otherwise specified in the contract requirements.

C.1.2 Erosion Protection

Do not place the clay liner until after all adjacent site grading has been completed and only after silt fence has been installed completely around the area of clay liner placement.

C.1.3 Clay Placement

After the fine grading is complete, place and compact clay liner in compacted 6-inch lifts. Place each lift of clay liner in one continuous lift. See plans for clay liner construction limits. Measure the thickness of the clay, as shown in the plans,perpendicular to the surface.

Notify the engineer at least three days before starting construction of clay liner.

Table 1

Reference	Number	Test Title	Requirements	Testing Frequency	
				Source Screening	Project Testing
AASHTO[1]	T99-01	Moisture –Density Relationships of Soils Using a 2.5-kg (5.5 lb) Rammer a 305 mm (12-in.) Drop (Standard Proctor)	NA	1/source	NA
AASHTO	T-88-00	Particle Size Analysis of Soils	P200[3] $\geq$ 50%	2/source	1/lift
AASHTO	T-89-02	Determining the Liquid Limit of Soils	LL[4] $\geq$ 22%	2/source	1/lift
AASHTO	T-90-00	Determining the Plastic Limit and Plasticity Index of Soils	PI[5] $\geq$ 12%	2/source	1/lift
AASHTO	T310-03	In-Place Density and Moisture Content of Soils and Soil-Aggregates by nuclear Methods (Shallow Depth)	DD[6] $\geq$ 95% of the MDD[7]	NA	100'x100' Grid/lift
ASTM[2]	D5084-03	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	K[8] $\leq$ 1 x 10^{-7} cm/sec	1/source[9]	1/site[10]

Notes:

1. AASHTO = American Association of State Highway and Transportation Officials
2. ASTM = American Society of Testing and Materials
3. P200 = Percent by weight passing the #200 sieve (%)
4. LL = Liquid Limit (%)
5. PI = Plasticity Index (%)
6. DD = Dry Density (pcf)
7. MDD = Maximum Dry Density (pcf) as determined by the Standard Proctor Test
8. K = Hydraulic Conductivity (cm/sec)
9. The sample for the test shall be remolded at a minimum dry density of 95% of the maximum dry density as determined by the Standard Proctor test and at a moisture content required to achieve the required hydraulic conductivity, but with a minimum moisture content at or above the optimum moisture content as determined in the Standard Proctor test.
10. An undisturbed sample from a thinned walled sampler (Shelby tube).

Compact the clay liner to a minimum of 95% Standard Proctor AASHTO T-99 Maximum Dry Density with footed compaction equipment having feet at least as long as the loose lift height. As needed, clay shall be disked or otherwise mechanically processed before compaction to break up clods and allow moisture content adjustment. Clod size shall be no greater than 4 inches. All compaction equipment utilized shall have a minimum static weight of 30,000 pounds.

Provide all equipment necessary to adjust clay liner to the proper moisture content for compaction.

Make sufficient number of passes of the compaction equipment over each lift of clay to ensure complete remolding of the clay.

Do not proceed with placement of additional lifts until all required clay liner testing and documentation has been completed for the previous lift.

During placement of the clay liner the minimum moisture content shall be as defined by the testing performed in the source screening evaluation and with the following limits:

- No drier than the optimum moisture content as determined by the Standard Proctor test.

If the in-place clay liner fails to meet the requirements of Table 1, then remove and replace or rework any portion of the clay liner not meeting the project requirements until project specifications are met. There shall be no compensation for removing, replacing and reworking clay not meeting the requirements in Table 1.

C.1.4 Project Testing and Acceptance

Perform all project testing at the frequency shown in Table 1 except for project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter, which will be done by the department. Record clay liner thickness on a 100 foot x 100 foot grid pattern.

Provide the following:

- Access for on-site testing, inspection, and documentation.
- Machinery required to grade/blade density test locations.
- Machinery required to collect undisturbed clay samples (i.e., with Shelby tubes).
- Replace and recompact clay material removed for testing purposes.

Perform sampling, testing, and documentation for project testing in Table 1, required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at each grading site during all clay liner placement, compaction, and sampling/testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

If an Assistant Certified Technician (ACT) is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

Perform all project testing with a department approved laboratory.

C.1.5 Department Testing

The department will perform the project testing for ASTM D5084-03 Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter.

D Measurement

The department will measure Pond Liner Clay in volume by the cubic yards, 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
640.1303.S	Pond Liner Clay	CY

Payment is full compensation for for furnishing, placing and compacting the clay liner; and for performing all tests.

The department will pay separately for dewatering.

59. Field Facilities.

Replace standard spec 642.2.1 (4) with the following:

Provide and maintain suitable interior sanitary facilities conforming to State and local health requirements, in clean and good working condition, provide a weekly cleaning service, and stock with sanitary supplies for the duration of the contract.

Supplement standard spec 642.2.2.1 (3) with the following:

Provide CAT 5 services with a minimum of six CAT 5 receptacles.

Supplement standard spec 642.2.2.1 (4) with the following:

Provide and maintain a plain-paper photocopier with scanner that uses toner not ink, has auto-feed capability, and can output a PDF of a copied or scanned document.

Add standard spec 642.2.2.1 (6) as follows:

Provide a field office having an adjacent hard surface parking facility with a minimum capacity of 16 passenger vehicles.

Replace standard spec 642.2.2.4 with the following:

Under bid item Field Office Type D, furnish a facility with a minimum interior space of 1,500 square feet including a meeting room that is at least 20 feet by 20 feet; furnish indoor sanitary facilities that are housed within, or directly adjacent to, the field office; clean, maintain, and supply the field office and sanitary facilities weekly; and equip with the following:

- Ten suitable office desks with drawers and locks.
- Ten ergonomically correct office chairs in working condition according to standard spec 642.2.2.1 (4).
- Two 4-drawer file cabinets.
- Two 4-shelf bookcases.
- Four 2.5 x 5-foot (minimum) tables.
- Four 4 x 8-foot (minimum) tables for the meeting room.
- Twenty, or more, folding chairs.

Add standard spec 642.3 (7) as follows:

(7) Locate the field office to be within 3 miles of the IH 39 interchange with USH 12.

Add standard spec 642.5 (4) as follows:

(4) Payment of the field office is full compensation for providing a weekly cleaning service for the field office and sanitary facilities, for providing sanitary supplies as necessary, for replenishing paper, toner cartridges, and other supplies before fully expended, for maintaining the photocopier/scanner in working order at all times and for providing and supporting CAT 5 services.

60. Nighttime Work Lighting-Stationary.

A Description

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

B (Vacant)

C Construction

C.1 General

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

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

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

C.2 Portable Lighting

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

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

C.3 Light Level and Uniformity

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

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

C.4 Glare Control

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

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

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

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

C.5 Continuous Operation

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

D (Vacant)

E Payment

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

stp-643-010 (20100709)

61. Geotextile Type SR, Item 645.0135.

Provide type SR geotextile fabric conforming to standard spec 645 and conforming to the following physical properties:

Test	Method	Value[1]
Minimum Tensile Strength	ASTM D 4595	205 lb/in
Maximum Elongation at Required Strength	ASTM D 4595	50%
Minimum Puncture Strength	ASTM D 6241	500 lb
Maximum Apparent Opening Size	ASTM D 4751	No. 180 µm
Minimum Permittivity	ASTM D 4491	1.4 s^{-1}

[1] All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

stp-645-035 (20171130)

62. General Provisions for City of Madison Electric Systems.

A General Requirements

Perform this work according to the Wisconsin Electrical Code, National Electrical Contractors Association (NECA) electrical construction practices, OSHA and the standard specifications.

Perform all work on the lighting and conduit/pull box system according to the Wisconsin Electrical Code, and applicable provisions of standard spec 659, and these special provisions and plans.

Carefully remove and salvage the steel frames and covers from all pull boxes and manholes to be removed or abandoned, and all street light poles, arms, transformer bases, fixtures, concrete handholes, and associated equipment. Contact the Electrical Operations Lead Worker at the City of Madison Traffic Engineering Shop, (608) 266-9031, to coordinate removal of existing light poles.

Complete electrical work by a journey-worker electrician or be completed by an electrical apprentice under the supervision of a journey-worker electrician. Legal status or standing as a journey-worker and apprentice electricians shall be certified or otherwise documented to the engineer before beginning any electrical work. Electrical work is hereby defined as electrical and related construction required to be performed under the contract by the contractor, according to the standard specifications, contract provisions, standard detail drawings and plan details applicable to electrical construction. At the pre-construction conference, supply the engineer with a list of names and qualifications of journey-workers and/or electrical apprentices who will or may be working on this contract.

Proof of qualification to do electrical journey-worker level work shall be the “Completion of Apprenticeship” certification card issued by an approved state agency, or a resume showing sufficient electrical education and a minimum of 14,000 hours of varied electrical work experience. All apprentices shall be indentured by an approved state agency.

The contractor is hereby advised that electrical apprentices must work under the terms of their indentures, which require an apprentice be under the direct supervision of a journey-worker with the exception of an apprentice in the final year as an apprentice. Any violation, or suspected violation, of these terms will be reported to the Bureau of Apprenticeship Standards.

On completion of the work, test the installation and ensure that it is entirely free of grounds and short circuits. This contract contemplates and intends a complete and operating installation of electrical work. Everything in the form of labor or material necessary for this result is in the intent of the contract.

It must be understood that electrical drawings and details are diagrammatic; they are not intended to be shop drawings. It is expected it may be necessary to move conduit, and/or equipment in some cases, to get a coordinated installation. Such changes are considered part of the contract obligation, without cost to the owner. Do not locate any equipment where its usefulness and/or operation may be affected by the work of other trades, door swing, counter, equipment, within areas of drainage, etc.

The contractor acknowledges his acquaintance with the plans and specifications and their respective requirements and shall guarantee the electrical system has been installed strictly according to the electrical plans and specifications, using only the best of materials available and installed in a substantial manner by experienced labor. The contractor agrees to replace and/or repair items failing from causes of faulty workmanship, material or design, without extra cost, at any time within one year from the date of final acceptance.

Furnish the City of Madison with service manuals for all items furnished under this contract. Service manuals shall be complete with drawings, diagrams, operation and installation instructions, and parts lists.

New streetlight wire in conduits shall consist of 3#4 and 1#8 green wire. The color coding for the #4 wire shall be one black, one red, and one white.

Ground wires shall have green insulation or be marked with green tape at all junction or pull boxes and at all terminations. Equipment and enclosures shall be grounded, ground connection surfaces shall be cleaned, and connections shall be made so it is impossible to move them.

All maintenance of existing street light facilities within the project limits shall be the contractor's responsibility. Maintain the new street lights until project work is accepted. This work shall be considered incidental to installation of street light units, temporary lighting, structures and ducts, and no separate compensation will be paid.

Extend existing lighting circuits to feed the new and relocated lights as part of this project. Verify the existing loads of each lighting circuit before adding additional load to a lighting circuit. Loading on any circuit shall not exceed NEC requirements.

Submit one copy of as-built plans, including cable and conduit routing diagrams, wiring of fixtures and other pertinent details, to the engineer and the City of Madison.

Furnish equipment and appliances necessary to test the complete installation of electrical conductors. Test and demonstrate to the satisfaction of the engineer that the circuits are properly connected, continuous and free from short circuits and unspecified grounds, that the circuits are connected according to the manufacturer's wiring layout, and that each circuit is operational. The lighting system shall not be deemed complete until the electrical work has been completed and the electrical systems are found to be in proper working order, including operation for ten consecutive nights without failure.

B Materials

All materials furnished by the contractor for lighting installation under this contract are subject to approval by the engineer.

Manufacturers shall be responsible for providing materials listed by UL or other approved agencies and all governing codes and ordinances. Materials must bear a UL and/or other approved labels, where possible. Items specified by catalog number of brand name and shop drawing approval will not relieve the manufacturer of this responsibility. All electrical material for which a standard has been established by the Underwriters Laboratories, Inc. shall be furnished and installed under this contract. Material shall have the UL label firmly attached and be listed by UL Listing signifies that the material has passed the established standard testing. All electrical materials shall conform to the latest requirements of the Wisconsin Electrical Code.

All materials, not specified herein, used in the work shall conform to the requirements specified on the plan or the contract special provisions.

Furnish and install incidental items, such as wire nuts, grommets, tape, connectors, and electrical varnish that are obviously necessary to make the proposed system complete from the source of supply to the most remote unit.

Touch up mars and scratches on painted equipment with two coats of synthetic resin enamel or as directed by the engineer.

Furnish a complete list and cut sheets/shop drawings of materials to be furnished and used for lighting. Include the names and addresses of manufacturers, together with catalog numbers, certificates of compliance, specifications, and other product information requested by the engineer. Submit the list and

cut sheets/shop drawings within 20 calendar days of the award of the contract. Do not incorporate any materials into the lighting system prior to obtaining the written approval of the engineer. Approval does not change the intent of the specifications. Do not substitute any materials. The contractor is allowed up to two submittals of material for approval. If more than two submittals are required, the contractor will be charged on a time-and-material basis for additional review time with payment made before submittals will be reviewed.

C Splices

Splices shall comply with standard spec 659.3.2. All splices within a junction box, handhole, etc. shall be of the same type. No splices are allowed in underground pull boxes, except for grounding conductors and loop detector cables.

D Circuit Identification

Accomplish color coding by using cable jackets of the proper color. Code all tails of all splices. Color-code secondary distribution circuits as shown on the plans; the ground conductor shall be green. Each accessible location of underground cable in junction boxes, pull boxes and pole bases shall have a permanent white nylon tag with black lettering, attached in a “flag” manner using a nylon tie, identifying the cabinet and conductor circuit number.

E Branch Circuit Tagouts

The contractor may at his option work on live circuits or he may disconnect and tag out circuits. Any branch circuit not disconnected and tagged out shall be considered live; restrict work force to those qualified to work on live circuits. Disconnection may be made by disconnecting branches at the overcurrent device. Make tagouts with contractor furnished manufactured electrical warning tags and endorse with the name of the contractor, the date, and the project. Clear all tagouts by the end of the workday.

F Threaded Fasteners

Liberally coat all threaded fasteners, i.e., screws, and bolts with an approved anti-seize compound. Excepting fasteners inside control cabinets, fasteners up to 1/2-inch in diameter shall be stainless steel.

Provide rust, corrosion and anti-seize protection at threaded assemblies by coating the mating surfaces with Markal (Hightemp E-Z Break), Never-Seez (marine grade), LPS 100, Lubriplate or approved equal.

G Bonding Wire

Install bonding wire in conduits for equipment grounding. Ground all equipment as required.

H Initial Failures

The contractor and the engineer shall agree on a time for test burning of completed installations, which is generally toward the end of the contract period. Replace failed lamps, along with any other non-functioning component, for no additional compensation. Only one test burn for the purpose of identifying initial failures will be required. Coordinate supply of replacement lamps with the city.

I Project Construction Staging

The construction of the new lighting system shall maintain the integrity of the existing lighting systems within and beyond the project limits at all times. Exceptions to this shall only be granted for just cause by the inspector.

Install transformer bases on all street light bases that are constructed, but not connected to the finished lighting circuit. Do not install poles, arms, or luminaires that cannot be energized and operational on the finish circuit prior to a winter work suspension.

J Items of the Same Classification

All items of the same classification shall be of the same manufacturer and series.

K Underground Installation

Ensure that the engineer has inspected all underground conduit and concrete base forms before backfilling any trench or pouring concrete. Any work completed without such inspection is subject to rejection as unacceptable work and shall be immediately removed and acceptably replaced or otherwise satisfactorily corrected by and at the expense of the contractor. It is the contractor’s responsibility to arrange for inspections. There will not be any additional compensation to the contractor for delays and inconvenience associated with arranging and waiting for inspections.

63. General Provisions for City of Madison Conduit Installation.

Supplement standard spec 652 as follows:

Use Schedule 80 PVC conduit under all traffic areas.

Install all conduit at a minimum depth of 30 inches, unless otherwise approved by the engineer. Solvent weld all joints. Mark the location of each conduit, where conduit crosses traffic areas, by a permanent chiseled arrow or other appropriate permanent stamp in top of the curb head.

Install and connect all conduit to the concrete bases, manholes, handholes (pull boxes), existing conduit, or conduit elbows so as to provide a continuous network, unless otherwise indicated on the plan. All connections shall be watertight. Do not install drainage holes in conduit. Uncover the ends or mid-sections of all existing conduit that is being extended by or incorporated into this project work.

When connections are to be made to an existing conduit, first verify that the existing conduit is fully clear and useable for its entire cross-section and length. When the existing conduit is found to be defective, notify the engineer and do not proceed until the engineer so directs. If the contractor connects to an existing defective conduit without the express direction from the engineer, make any and all necessary repairs and replacements to all conduits, including conduit that was “existing” prior to the contractor starting work and to the satisfaction of the engineer. All costs of this work shall be at the expense of the contractor.

Turn up conduits terminating in a non-paved location and not in a structure, and end at terrace finish grade with a PVC cap securely attached, per duct termination detail. Where conduit runs parallel to curb and gutter, place the conduit within 12 inches of the back of the curb, except as directed by the engineer. The engineer will determine termination points not within pull boxes or concrete bases.

Unless the contract provides for installation of cable, cap the ends of each run of conduit with standard conduit caps or otherwise appropriately plug the ends to preclude infiltration of water and soil. Install a pull wire in each conduit, except those with only streetlight wire. A pull wire shall be approximately 4 feet longer than the conduit run and shall be stripped and spliced wire to wire in each access point. The pull wire shall be #10 AWG copper, stranded, with THHN insulation and green color coding. Install the pull wire within seven days of completing a conduit installation from structure-to-structure.

Use a 6-inch minimum sand padding below the conduit and a 6-inch minimum sand lift above the conduit. Do not backfill trench with any rocks larger than 4 inches in diameter or any foreign debris.

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

A Description

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

B Materials

Use conduit, as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the standard spec.

C Construction

Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriately sized hole for entering conduits at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement

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

E Payment

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

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

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

stp-652-070 (20100709)

65. Intelligent Transportation Systems (ITS) – Control of Materials.

Standard spec 106.2 – Supply Source and Quality

Add the following to standard spec 106.2:

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

Department-Furnished Items
6-Count Fiber Optic Cable
Fiber Optic Termination Panels
CCTV Cameras
CCTV Camera Poles
Ethernet Switches
Pole-Mounted Cabinets

Pick-up small department-furnished equipment, such as communications devices, cameras, and controllers, from the department's Statewide Traffic Operations Center (STOC), 433 W. St. Paul Ave., Milwaukee, WI 53203 at a mutually agreed upon time during normal state office hours. Contact the department's STOC at (414) 227-2166 to coordinate pick-up of equipment.

Large department-furnished equipment, such as poles will be delivered by the supplier to a contractor-controlled site within Dane County. Delivery will not necessarily be in a "just in time" manner. Store the equipment until field installation. Provide location details and a contact for delivery coordination upon receiving the contract's Notice to Proceed.

Transportation of the equipment between the electric shop and the field or interim location(s) shall be the responsibility of the contractor.

Standard spec 106.3 – Approval of Materials

Add the following to standard spec 106.3:

Design/Shop Drawings

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

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

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

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

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

670-005 (20150630)

66. Intelligent Transportation Systems – General Requirements.

A Description

A.1 General

This contract includes furnishing and installing elements for an Intelligent Transportation System (ITS) in or along the existing roadway as shown on the plans.

Unusual aspects of this project include:

The project includes working on cables and equipment that are carrying data between roadside equipment and the department's Statewide Traffic Operations Center (STOC). Interruption of this service is not expected to perform this work. If an interruption is determined necessary, it must be done on a weekend, and must be done in a way that minimizes communication outages for the existing equipment. Notify the department's STOC at least 48 hours in advance of the planned interruption.

The department will furnish some of the equipment to be installed. Make a reasonable effort to discover defects in that equipment prior to installing it.

A.2 Surge Protection

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

B Materials

B.1 General

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

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

B.2 Outdoor Equipment

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

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

B.3 Custom Equipment

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

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

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

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

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

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

B.4 Environmental Conditions

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

1) **Vibration and Shock**: Vehicle speed and classification sensors and any other equipment mounted atop poles or on structures shall not be impaired by the continuous vibration caused by winds (up to 90 mph with a 30 percent gust factor) and traffic.
2) **Duty Cycle**: Continuous
3) **Electromagnetic Radiation**: The equipment shall not be impaired by ambient electrical or magnetic fields, such as those caused by power lines, transformers, and motors. The equipment shall not radiate signals that adversely affect other equipment.
4) Electrical Power:
    a) **Operating power**: The equipment shall operate on 120-volts, 60-Hz, single-phase unless otherwise specified. It shall conform to its specified performance requirements when the input voltage varies from 89 to 135 volts and the frequency varies +3 Hz.
    b) **High frequency interference**: The equipment operation shall be unaffected by power supply voltage spikes of up to 150 volts in amplitude and 10 microseconds duration.
    c) **Line voltage transients**: The equipment operation shall be unaffected by voltage transients of plus or minus 20 percent of nominal line voltage for a maximum duration of 50 milliseconds. Equipment in the field shall meet the power service transient requirements of NEMA Standard TS-2 when connected to the surge protectors in the cabinets.

5) Temperature and Humidity:

   a) **Field equipment:** Equipment in the field shall meet the temperature and humidity requirements of NEMA Standard TS-2. Liquid crystal displays shall be undamaged by temperatures as high as 165 degrees F, and shall produce a usable display at temperatures up to 120 degrees F.

   b) **Equipment in Controlled Environments** shall operate normally at any combination of temperatures between 50 degrees F and 100 degrees F, and humidity's between 5 percent and 90 percent, non-condensing, and with a temperature gradient of 9 degrees F per hour.

B.5 Patch Cables and Wiring

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

B.6 Surge Protection

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

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

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

C Construction

C.1 Thread Protection

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

C.2 Cable Installation

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

C.3 Wiring

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

Permanently label and key connectors to preclude improper connection. Obtain prior engineer approval for the labeling method(s) prior to use.

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

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

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

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

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

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

C.4 System Operations

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

C.5 Surge Protection

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

D Measurement

No separate measurement will be made for the work described in this article.

E Payment

No separate payment will be made for the work described in this article. All work described in this article shall be included under the ITS items in the contract.

670-010 (20100709)

67. Install Pole Mounted Cabinet, Item 673.1225.S.

A Description

This special provision describes installing department furnished aluminum enclosures on poles for intelligent transportation systems equipment.

B Materials

Use stainless steel bolts, nuts, and washers unless otherwise specified.

All conductors, terminals, and parts that could be hazardous to maintenance personnel shall be protected with suitable insulating material.

The cabinet will be equipped with service panels. Two panels shall be provided and mounted on the cabinet sidewalls. The left side panel shall be designated as "Input/Communications," and the right side panel shall be designated as the "Service Panel."

The service panel will be equipped with a four-outlet handi-box. Wire the handi-box to the series portion of the filtering surge protector.

Use metallic conduit, fittings, and adapters required from the underground conduit transition point to the cabinet as part of this item. A typical installation requires on 2-inch conduit. Use metallic conduit conforming to standard spec 652.

C Construction

Fasten the field cabinet securely onto a pole. Provide bolted stainless steel connections with lock washers, locking nuts, or other engineer-approved means to prevent the connection nuts from backing off. Isolate dissimilar materials from one another using stainless steel fittings. Make all power connections to the cabinet as specified in standard spec 656.

Drill and tap the cabinet, as necessary, to mount the terminal blocks and other attachments to the service panel, to provide an entrance on the back of the cabinet for cable from the pole mounted intelligent transportation systems equipment, and to mount the service panel to the cabinet as shown in the details. Remove all sharp edges or burrs, or both, caused by the cutting or drilling process. Seal all openings to prevent water from entering the cabinet. Mount the surge protector to the service panel.

Install metallic conduit on the exterior of the pole (for entrance to the cabinet from the ground) as the plans show, and according to the applicable requirements of standard spec 652.

D Measurement

The department will measure Install Pole Mounted Cabinet as each individual assembly, 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
673.1225.S	Install Pole Mounted Cabinet	EACH

Payment is full compensation for installing the pole mounted cabinet; for making all connections and conduit/wire entrances; and for all testing.

stp-673-010 (20220107)

68. Pre-Planting Vegetation Treatment, Item SPV.0005.01.

A Description

This special provision describes applying pre-seeding broadcast herbicides onto the native seed planting areas shown in the plans.

Notify the Region Environmental Coordinator at least 1 month prior to schedule herbicide activity, after utility locates, to initiate the layout and marking of the native seed planting areas. The department will layout and mark the boundaries of the native seed planting areas. At least 7 days prior to scheduled herbicide activity and after locating is complete, setup a field meeting with the Region Environmental Coordinator to review the marked areas.

All native seed planting areas must be reviewed by the Region Environmental Coordinator before herbicide application begins.

B Materials

B.1 Herbicides

Provide manufacturers labels with appropriate application rates to the Region Environmental Coordinator.

The selection of herbicide(s) to be used for controlling each target weed species shall be based upon the guidelines of the Midwest Invasive Plant Network's Invasive Plant Control Database (http://mipncontroldatabase.wisc.edu/). This site provides broadleaf herbicides recommendations for controlling broadleaf weeds, as well as grass-selective herbicides for controlling non-native cool season perennial grasses in early spring or late fall when warm season native grasses are dormant.

If the following broadleaf weeds are present, mix the low residual broadleaf herbicide 2, 4-Dichlorophenoxyacetic acid (2, 4-D) with glyphosate herbicide to ensure control:

- Field Bindweed (Convolvulus arvensis)
- Canada Thistle (Cirsium arvense)
- Crown Vetch (Securigera varia)

Many broadleaf herbicides have extended periods of activity in the soil and can retard the germination and survival of many wildflower seedlings. The use of any broadleaf herbicide other than 2, 4-D must be approved by the Region Environmental Coordinator prior to application. Do not apply any herbicides to the seeding site that will adversely affect the germination and growth of native prairie seedlings.

Use one of the following grass-selective herbicides to control unwanted cool season grasses in native prairies:

- Poast (Sethoxydim)
- Fusilade (Fluazifop-p-butyl)
- Clethodim

Each species of non-native cool season grass is more susceptible to damage by one of the above herbicides. Select the most effective herbicide for use on each target weedy grass species. Follow manufacturer's directions when mixing and applying herbicides. The addition of crop oil concentrate to the herbicide mix may be required to ensure successful control.

B.2 Herbicide Applicator Certification

Provide a DATCP-certified and -licensed applicator to apply herbicides. Provide copies of certification paperwork to the Region Environmental Coordinator prior to herbicide treatment.

C Construction

C.1 Pre-Seeding Treatment

Apply herbicide to the areas delineated in the plans as native seed planting areas. All existing weeds, grasses, and other vegetation must be eliminated prior to seeding or planting without disturbing the soil except for hand pulling individual weeds or woody vegetation.

After each herbicide application, fill out the department provided worksheet "Herbicide Treatment Summary". Complete one worksheet per site per application, sign the worksheet, and submit to the Region Environmental Coordinator.

Herbicides used to control weeds prior to seeding must be selected to ensure that post-application carry over in the soil will not affect germination of native seeds. Apply herbicide at appropriate concentration.

Existing vegetation shall be treated with herbicide at least once prior to seeding to kill all existing vegetation. The treatment of the vegetation shall be timed to ensure optimal weed control. Follow the suggested eradication sequence described below or obtain approval for other methods from the Region Environmental Coordinator.

1. If vegetation to be sprayed is taller than 12 inches, mow vegetation to 4 inches or less in height, 4 to 6 weeks before the first application of herbicide.
2. Apply the appropriate herbicide(s) when vegetation is at 12 inches in height or has regrown to a height of at least 12 inches following mowing.
3. Re-treat undesirable vegetation after allowing it to regrow to a height of 12 inches. Do not mow, till, drive vehicles over, or disturb the vegetation in any way between herbicide applications.
4. After the final herbicide application, the area may be seeded with the native seed mixtures. The timing of the seeding shall be according to the herbicide manufacturer's instructions.

Prevent herbicide drift onto adjacent trees and shrubs. Plants damaged due to herbicide drift will be replaced at the expense of the contractor.

D Measurement

The department will measure Pre-Planting Vegetation Treatment by the acre, 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.0005.01	Pre-Planting Vegetation Treatment	ACRE

Payment is full compensation for furnishing and applying herbicide; re-applying herbicide as needed; documenting herbicide applications: and mowing.

69. Seed Bed Preparation, Item SPV.0005.02.

A Description

This special provision defines the work required to prepare the soil for native seeding areas that were identified as inadequate during the seed bed inspection performed under the item Seeding Native Pollinator Mix Upland, Swale.

B (Vacant)

C Construction

C.1 Surface Treatment

For those areas authorized by the Region Environmental Coordinator as not adequate for native seeding, break down all clods and lumps using the appropriate pulverizing equipment to meet the specified gradation. Dress the entire surface to present a uniform appearance. Remove clods that cannot be broken down.

D Measurement

The department will measure Seed Bed Preparation by the acre, 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.0005.02	Seed Bed Preparation	ACRE

Payment is full compensation for providing the equipment and labor necessary to perform the work required under this bid item.

70. Temporary Portable Rumble Strip Arrays Non-Flagging, Item SPV.0045.01.

A Description

This special provision describes providing, relocating, maintaining, and removing temporary portable rumble strips for traffic control applications other than flagging.

B Materials

Furnish RoadQuake2 or Roadquake2F temporary portable rumble strips, by Plastic Safety Systems. Do not use alternate products or methods without preapproval by the Bureau of Traffic Operations.

C Construction

C.1 Placement

Provide rumble strips where the plans show or the engineer directs as follows:

1. Before placing rumble strips, clean the roadway of sand and other materials that may cause slippage.
2. Place one end of the rumble strips 6 inches from the roadway centerline. Extend the strips perpendicular to the direction of travel. Ensure strips lay flat on the roadway surface.
3. Only one series of rumble strips, placed before the first work zone, is required per direction of travel for multiple work zones spaced 1 mile or less apart. Work zones spaced greater than 1 mile apart require a separate series of rumble strips.

C.2 Maintenance

Maintain rumble strips as follows:

1. If rumble strips slide, become out of alignment, or are no longer in the wheel path of approaching vehicles during the work period, thoroughly clean both sides of the rumble strips and reset on a clean roadway.
2. Repair or replace damaged rumble strips immediately.

D Measurement

The department will measure Temporary Portable Rumble Strip Arrays Non-Flagging applications by the number of calendar days acceptably completed during which each array is in use, whether for the calendar day in its entirety (24 hours, starting and ending at midnight), or for a portion of the calendar day.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0045.01	Temporary Portable Rumble Strip Arrays Non-Flagging	DAY

Payment is full compensation for providing, relocating, maintaining or replacing, and removing temporary portable rumble strips used for traffic control applications other than flagging.

Rumble strips used for flagging will be incidental to the contract, per standard spec 104.6.1.2.2(5).

71. Construct LB-3 Base, Item SPV.0060.01.

A Description

This special provision describes furnishing and installing a lighting bases in to match the City of Madison's standard base, LB-3.

B Materials

Furnish and install materials in compliance with the City of Madison Standard Specifications, Article 604 and LB-3 Base Detail as shown in the plans.

C Construction

Where bases are to be installed within existing sidewalks or improved terraces, the contractor shall remove and replace the entire stone of sidewalk or improved terrace affected by the installation unless otherwise specified or directed by the Traffic Engineer.

The general locations of the bases are shown on the plans. The exact locations and elevations shall be established in the field by the Traffic Engineer. The elevations of the bases shall be as shown on the applicable Standard Plate unless otherwise specified. Forms shall be placed with sufficient depth to provide a minimum of 12 inches of formed base below the finished grade on the low side of the base. The top surface of the base shall be level, with a 3/4-inch bevel on the edges, and given a float finish.

A 5/8-inch by 8-foot copper-weld ground rod shall be cast into each base. The ground rod shall extend a minimum of 7 feet below the bottom of the base and shall be connected with a No. 4 stranded copper wire and approved connector to one anchor bolt. The No. 4 stranded copper wire shall be of sufficient length to protrude 3 feet above the top of the base for the contractor to connect the wire to the ground lug in the pole or metal base.

City-furnished anchor bolts shall be cast into the base. These bolts shall be placed according to the base detail and other directions furnished by the city as to location and projection above the top of the base and shall be true vertical. All anchor bolts 1 inch in diameter and larger shall be placed in the form before concrete is poured. The bolts shall be secured by tack welding or wiring horizontal rebar to the bolts to form an anchor bolt cage.

The horizontal rebar shall be placed 18 inches from the top and 12 inches from the bottom of the bolts. The contractor shall furnish and install a minimum of two manufactured elbows in all bases and more where specified. The contractor shall install the elbows to permit cable entrance from the street side of, or along the line of, the poles, as shown on the plans. Manufactured galvanized steel elbows with grounding bushings shall be furnished and installed in those bases where galvanized steel conduit is used, as shown on the plans. Existing conduit shall be extended into the bases. The conduit extending above the concrete base shall be centered. Unless otherwise specified, all backfill shall be according to the requirements of Section 503.2 of the City of Madison Specifications

D Measurement

The department will measure Construct LB-3 base as each unit, complete in place and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Construct LB-3 Base	EACH

Payment is full compensation for furnishing and installing reinforcing rods, conduit elbows, clamps, ground rods, and copper wire; for picking up and installing anchor bolts; for furnishing and placing concrete masonry; for excavation, backfill, and disposal of surplus materials.

72. Poles 30-Foot 11 Gauge Simplex, Item SPV.0060.02.

A Description

This special provision describes furnishing and installing poles and arms according to standard spec 657, the details shown on the plans, and these special provisions.

B Materials

Provide round poles, with a base plate welded to the bottom end of the pole. All 30-foot poles are to be a single section, with an eight-inch diameter shaft at the base and 0.14-inch per foot taper.

Provide base plates that have a slotted opening for anchor bolts.

Certify that all 30-foot poles have been designated to withstand a 90-mile per hour sustained wind velocity and 117 mile per hour gust velocity with the bracket arm and luminaires in place.

Provide a 4” x 6 ½” galvanized handhole with contoured or flat cover plate joined to the reinforced handhole frame with two bolts. Locate the handhole at 90-degrees clockwise from the bracket arm side of poles as viewed when looking down from the top of the pole. The center of the handhole should be 14 inches from the bottom of the pole. Provide a solid metal bracket, with a drilled and tapped hole for securing cover plate bolts. Clips for holding these bolts are not acceptable. The machine bolts shall be a slotted hex-head style.

Fabricate the pole shaft from the herein specified manufacturer’s best grade, hot rolled basic option hearth, or basic oxygen process steel. Provide a shaft with only one longitudinal, electrically welded joint, with the strength rated at not less than 100 percent of the yield strength of the steel and shall have no intermediate horizontal joints or welds. Only one length of steel shall be used, and form it into a continuously tapered shaft, having a taper of approximately 0.14 inches per foot. Provide smooth welds allowing the specified taper to be constant. Provide a pole that is within ¼” in 10 feet of being straight and centered on its longitudinal axis.

Provide a grounding nut or nut holder for accommodating a ½ inch x 13 UNC threaded bolt or stud on the inside of the shaft immediately opposite the center of the handhole. Make the nut completely free of any metal residue that would prevent a bolt from easily screwing entirely into the nut.

Provide all poles holding LED fixtures with mounting and wire raceway holes placed before being hot-dipped galvanized. Coordinate mounting needs with the LED luminaires selected for the project prior to ordering poles.

Furnish and install a pole-top cover and four nut covers for each pole. Adjust the size of the pole top cover to account for poles cut to shorter lengths.

Provide each steel pole with a permanent imprinted metal label attached with rivets midway between the base plate and the handhole. State the overall pole height, shaft gauge, and year of manufacture on the label. Provide a label that will conform to the curvature of the pole and not have any sharp edges or corners. Install rivets so they are smooth inside and outside of the pole.

Thoroughly clean the exterior surface of the pole, arm, and hardware to make them free of all loose rust, mill scale, dirt, oil, grease, and other foreign substances after all welding has been completed. Hot-dip galvanized the poles and arms according to the requirements of ASTM Designation A123. Hot-dip galvanize the hardware according to ASTM designation A153. Provide a bright, shiny, and uniform galvanized finish. Matted or dull pole sections will not be accepted.

Furnish non-shrink commercial grout from approval products list.

C Construction

Set and plumb metal poles with the use of leveling nuts furnished with the anchor bolts. Level luminaires after erecting and leveling the metal standards with bracket arms. The proper leveling method may be-obtained from the manufacturer's instruction manual. Torque nuts on anchor and transformer bolts to 175-200 foot pounds or as directed by the engineer. Provide rust, corrosion, and snit-seize protection at all threaded assemblies by coating and mating surfaces with Markal (hightemp – E-Z Break), Never-Seez (Marine Grade), LPS 100, Lubriplate, or approved equal.

Attach the stranded copper ground wire that is installed as a part of the base construction with an approved connector (Fargo GC 202 or approved equal) to a ground nut locate inside the pole opposite the handhole.

When transformer bases are not installed, trowel grout between the pole and concrete base and finished at an angle from the edge of the pole base to the outer edge of the foundation. Leave a ½ inch slot for drainage through the grouting on the street side at the top of the concrete base.

Cut the poles to modified lengths at the plan locations to meet OSHA clearance requirements at overhead transmission lines.

D Measurement

The department will measure Poles 30-Foot 11 Gauge Simplex 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.0060.02	Poles 30-Foot 11 Gauge Simplex	EACH

Payment is full compensation according to standard spec 657.5. and for cutting poles to lengths less than 30 feet.

73. Ground Rod, Item SPV.0060.03.

A Description

This special provision describes installing a ground rod and ground wire.

B Materials

Ground rod shall be copper clad steel with cladding 13 mils thick. The minimum diameter is 5/8-inch and the minimum length is 8 feet. Ground wire shall be AWG # 6 bare, solid copper.

C Construction

Use exothermic welding to connect the ground wire to the rod. Install the rod vertically, or as close to vertical as conditions permit. Select locations with moist soil, if available. Place the rod at least 6 feet from all other ground rods.

D Measurement

The department will measure Ground Rod by each unit, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Ground Rod	EACH

Payment is full compensation for installation of the ground rod and ground wire; and welding and connections at both ends of the ground wire.

74. CIP Inlet 4, Item SPV 0060.04.

A Description

This special provision describes furnishing and installing CIP Inlet 4 as shown on the plans and according to the pertinent provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish materials that conform to the requirements of the standard spec 611.2 and the following requirements:

- Inlet construction shall conform to requirements of Standard Detail Drawing 8B10.
- Inlet size shall be 4 x 4 feet.
- Inlet cover opening shall be 2 x 3 feet.

C Construction

Construct the inlet according to standard spec 611.3.

D Measurement

The department will measure CIP Inlet 4 by each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.04	CIP Inlet 4	EACH

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for all excavating, bedding material, backfilling, disposing of surplus material, and forcleaning out and restoring the work site; except that the department will pay for covers, including frames,grates and lids separately.

75. CIP Inlet 2x3, Item SPV 0060.05.

A Description

This special provision describes furnishing and installing CIP Inlet 2X3 as shown on the plans, and according to the pertinent provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish materials that conform to the requirements of the standard spec 611.2 and the following requirements:

- Inlet construction shall conform to requirements of Standard Detail Drawing 8C7.
- Inlet size shall be 2 x 3 feet.

C Construction

Construct the inlet according to standard spec 611.3.

D Measurement

The department will measure CIP Inlet 2X3 by each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.05	CIP Inlet 2x3	EACH

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for all excavating, backfilling, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames, grates and lids separately.

76. CIP Manhole 6x6, Item SPV 0060.06.

A Description

This special provision describes furnishing and installing manhole 6x6 as shown on the plans, and according to the pertinent provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish materials that conform to the requirements of the standard spec 611.2 and the following requirements.

- Manhole construction shall conform to requirements of Standard Detail Drawing 8B 10 for Manholes.
- Manhole size shall be 6 x 6 feet.
- Manhole cover opening shall be 2 x 3 feet.

C Construction

Construct the inlet according to standard spec 611.3.

D Measurement

The department will measure CIP Manhole 6x6 by each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	CIP Manhole 6x6	EACH

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for all excavating, bedding material, backfilling, disposing of surplus material, and for cleaning out and restoring the work site; except that the department will pay for covers, including frames,grates and lids separately.

77. CIP Inlet SP, Item SPV 0060.07.

A Description

This special provision describes furnishing and installing CIP Inlet SP as shown on the plans, and according to the pertinent provisions of standard spec 611 and as hereinafter provided.

B Materials

Furnish materials that conform to the requirements of standard spec 611.2 and as shown on the plan construction detail sheets.

C Construction

Construct the inlet according to standard spec 611.3.

D Measurement

The department will measure CIP Inlet SP each structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	CIP Inlet SP	EACH

Payment is full compensation for providing all materials, including all masonry, conduit and sewer connections, steps, and other fittings; for all excavating, bedding material, backfilling, disposing of surplus material, and forcleaning out and restoring the work site; except that the department will pay for covers, including frames,grates and lids separately.

78. Salvage and Replace Pipe Underdrain Endwall, Item SPV.0060.08.

A Description

This special provision describes salvaging and replacing underdrain endwalls as shown in the plans.

B Materials

Use underdrain endwalls salvaged under this contract.

C Construction

Salvage underdrain endwalls shown in the plans according to standard spec 204.3. Replace underdrain endwalls shown in the plans according to standard spec 612.3.

D Measurement

The department will measure Salvage and Replace Pipe Underdrain Endwall as each individual salvaged and replaced underdrain endwall, 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	Salvage and Replace Pipe Underdrain Endwall	EACH

Payment is full compensation for salvaging and storing endwalls; excavating and backfilling; placing and connecting endwalls; restoring the work site; and for disposal of surplus materials.

79. Removing Communication Vault, Item SPV.0060.09.

A Description

This special provision describes removing an existing communication vault.

B Materials

Materials include existing communication vault and restoration materials such as backfill, topsoil, seeding, mulch, and fertilizer according to the pertinent provisions of standard spec 201, 625, 627, 629, 630, 636, and 640.

C Construction

Disconnect and cap conduit entering the communication vault. Remove and dispose of the communication vault. Backfill with material similar to the material surrounding the removal and restore the disturbed area by placing 4 inches of topsoil, and fertilize, seed, and mulch all disturbed areas according to the pertinent requirements of the standard specifications.

It is acceptable to re-use the vault lid in instances where new communications vaults are being installed in the project and the existing lid is undamaged. It is the contractor’s responsibility to determine if the existing vault lids fit on the proposed vaults.

D Measurement

The department will measure Removing Communication Vault by the unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Removing Communication Vault	EACH

Payment is full compensation for removing and disposing of a communication vault; and for backfill, topsoil, fertilizer, seed and mulch

80. Outlet Control Structure Pond A, Item SPV.0060.10; Outlet Control Structure Pond B, Item SPV.0060.11; Outlet Control Structure Pond C, Item SPV.0060.12; Outlet Control Structure Pond D, Item SPV.0060.14.

A Description

Furnish and install an Outlet Control Structure Pond according to the pertinent provisions of standard spec 611, as shown on the plans, and as hereinafter provided. Furnish and install a trash rack on the outlet control structure and according to the pertinent provisions of standard spec 506 and 513, as shown on the plans and as hereinafter provided. Provide orifice holes and PVC pipe and fittings as shown on the plan. Provide concrete to fill the bottom of the structure as shown on the plans.

B Materials

Furnish manhole materials according to standard spec 611.

Furnish concrete according to applicable provisions of standard spec 501.

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel galvanizing according to ASTM A123 and ASTM 1153 as applicable.

Trash rack shall be fabricated from structural steel shapes, flat bar and plates, and shall be galvanized after fabrication. Shop drawings for the trash rack shall be submitted to the engineer for approval prior to fabricating the trash rack.

Furnish bolts, nuts and washers for the installation of the trash rack onto the outlet control structure according to standard spec 513.2.1.

C Construction

Construct Outlet Control Structure Pond according to the applicable provisions of standard spec 611.3.

D Measurement

The department will measure Outlet Control Structure Pond as each individual structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.10	Outlet Control Structure Pond A	EACH
SPV.0060.11	Outlet Control Structure Pond B	EACH
SPV.0060.12	Outlet Control Structure Pond C	EACH
SPV.0060.14	Outlet Control Structure Pond D	EACH

Payment is full compensation for providing and placing all materials, including all masonry, steel and pipe connections, and other fittings; furnishing and installing trash rack; for providing orifice hole, PVC, and fittings; for furnishing, placing, protecting and curing concrete to fill the structure bottom; for furnishing all excavating, backfilling, disposing of surplus material, and cleaning out of structure.

Work associated with constructing the clay anti-seep collar will be paid for separately.

81. Orifice Plate Restrictor 6-inch, Item SPV.0060.13.

A Description

This special provision describes installing orifice plate restrictor 6-inch as shown in the plans and as hereinafter provided.

B Materials

Provide A36 steel, galvanized according to ASTM A123.

C Construction

Install orifice plate restrictor as shown on the plans.

D Measurement

The department will measure Orifice Plate Restrictor 6-inch by each restrictor, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.13	Orifice Plate Restrictor 6-inch	EACH

Payment is full compensation for providing all materials, including steel weir plate and all connections; installing the weir plate and for cleaning out and restoring the work site; and all other materials and incidentals necessary to complete the work.

The department will pay separately for structures, frames and grates.

82. Settlement Gauges, Item SPV.0060.15.

A Description

This special provision describes furnishing and installing the settlement gauges and extensions and monitoring the rate of settlement as shown on the plans and as hereinafter provided.

B Materials

Provide steel plate or plywood platform as shown on the plan. If plywood is used as the material for the plate, use a solid pipe flange or equal to secure the connection with a minimum of 4 carriage bolts. Furnish a minimum 1½ inch diameter conduit or 1¼ diameter pipe. The pipe shall be threaded. The first vertical pipe may be 10 feet in length; however, pipe lengths thereafter shall be provided in 5-foot lengths.

C Construction

After the compacted placement of select crushed material, locate a level surface at the following locations and place the platform: Station 455+00'LD', 16' RT, Station 456+00'LD', 16' RT, Station 457+00'LD', 16' RT, Station 458+00'LD', 16' RT, and Station 459+00'LD', 16' RT. Provide a surveyor to measure and record the elevation of the top of platform. Fill around the pipe ensuring that care be taken as not to damage the pipe. In a compacted fill, the fill placed around the pipe should be compacted with hand-guided equipment. Do not attempt to compact next to the pipe with large self-guided equipment. Once a pipe is bent the accuracy of the readings is greatly diminished. If a pipe is bent, straighten immediately, and the surveyor of record should note this in his diary. As the height of fill is raised, add sections of pipe while the surveyor is present.

Flag, protect, and maintain all settlement gauges installed as part of this contract. If a settlement gauge is damaged, immediately repair or replace the gauge at the contractor's expense. The engineer will determine whether repair or replacement is required. Complete the repair or replacement as soon as practical after notification by the engineer as to whether a repair or replacement is required.

Reference elevation readings and computations to the elevation taken on the top of plate. Show the length of pipe above the plate in the surveyor's notes, so that this can be subtracted from top of pipe elevation, to result in plate elevation. As a new section of pipe is added, make a mark on the pipe say 6 inches below top pipe, so that the amount of height taken up in the joint can be accounted for. Measure from the mark to the new top of pipe, to determine the overall full height of pipe above the plate.

The benchmark to be used for the elevation readings needs to be stable to permit accurate elevations to be taken. Verify that the benchmark to be used will not be impacted by fill settlement. Take all readings to the hundredth of a foot.

Provide elevation readings as the fill is placed (three times per week). Once the surcharge section is constructed in place as shown on plans take readings twice per week for the first month, every week for the next three months, and then every two weeks for the remainder of the monitoring period. At each reading record the following: number of platform and location, elevation of the plate, date, time of day, and elevation of fill. Record the time, in days, after fill is started at the plate and the amount of settlement in feet.

Cooperate with the department and its representatives in the monitoring and protection of the geotechnical instrumentation and conduct construction activities such that the department has reasonable access to the geotechnical instrumentation.

D Measurement

The department will measure Settlement Gauges by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.15	Settlement Gauges	EACH

Payment is full compensation for providing settlement platform, piping rod, and hardware; providing a surveyor to measure and record elevations; and for coordinating with the geotechnical engineer of record.

83. Temporary Connection to Existing Storm Sewer, Item SPV.0060.16.

A Description

This special provision describes temporarily connecting existing or temporary storm sewer laterals to new storm sewer structures or pipes in order to maintain storm water flow during construction.

B Materials

Furnish materials conforming to the pertinent provisions of standard spec 611 or as approved by the engineer.

C Construction

Connect the existing or temporary pipes to the new structures or pipes with an appropriate coupling, concrete collar or by means approved by the engineer. Any additional materials required to connect the storm sewer laterals are considered incidental to this bid item.

D Measurement

The department will measure Temporary Connection to Existing Storm Sewer by each connection, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.16	Temporary Connection to Existing Storm Sewer	EACH

Payment is full compensation for installation, removal, repair of the new structure or pipe after removal of the temporary connection and furnishing and installing all materials, couplings, and concrete collars.

84. Reconstructing Inlets Median 2 Grate, Item SPV.0060.17.

A Description

The special provision describes reconstructing type 2 median grate inlets, as detailed in the plans, according to standard spec 611.3.5, and as hereinafter provided.

B Materials

Use materials that conform to standard spec 611.2.

C Construction

Reconstruct the inlet according to standard spec 611.3 except as provided below.

For Reconstructing Inlets Median 2 Grate, drill reinforcement bars #4 a minimum 6 inches into the existing inlet at a spacing not to exceed 1 foot. An additional #4 reinforcement bar shall run along the entire perimeter of the inlet and shall have 2 inches of cover from the top of the proposed inlet elevation.

D Measurement

The department will measure Reconstructing Inlets Median 2 Grate as each individual inlet, 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.0060.17	Reconstructing Inlets Median 2 Grate	EACH

Payment for Reconstructing Inlets Median 2 Grate is full compensation for providing all required materials, including masonry and fittings; for salvaging and reinstalling existing grates; for all necessary excavation, form work, backfilling, disposing of surplus material, cleaning out and restoring the work site.

85. Fence Gate Salvaged, Item SPV.0060.19.

A Description

This special provision describes removing, handling, storing, and re-installing of fence gate units at the locations the plans show, conforming to standard spec 204 and 616, and as follows.

B Materials (Vacant)

C Construction

Any fence gate material damaged while removing, handling, storing, and re-installing shall be replaced or repaired by the contractor at no additional cost to the department.

Re-installation of the fence gate unit shall conform to plan details and standard spec 616.

Dispose of all surplus materials off the project site.

D Measurement

The department will measure the Fence Gate Salvaged by each individual unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.19	Fence Gate Salvaged	EACH

Payment is full compensation for removing, handling, and storing; for re-installing; for disposing of materials; and for providing all other materials required to re-install the salvaged fence gate unit.

86. Native Seed Surveillance and Care Cycles, Item SPV.0060.20.

A Description

This special provision describes the post-seeding monitoring, documentation, and care for the native seed planting areas.

A.1 Native Seed Establishment Period

The native seed surveillance and care period is from initial planting until December 15 of the succeeding year.

A surveillance and care cycle is defined as a 30 day interval. The number of and duration between surveillance and care cycles may be reduced or extended by the Region Environmental Coordinator as conditions dictate.

B Materials

B.1 Herbicides

Comply with the material specified in the article Pre-Planting Vegetation Treatment.

C Construction

C.1 General

Proper surveillance and care of native plants consists of weeding, re-seeding, and any other work necessary to maintain the native plants and promote continued establishment.

Remove any trash, debris, slurry, sediment, or other material deposited by wind, water, or other means in any of the native seeded areas.

C.2 Care Specialist

Provide one person, called the Care Specialist, responsible for the well-being of the native seed planting areas. Also provide any other personnel, licenses, certifications, vehicles, equipment, tools, and materials needed to carry out the care specialist's recommendations throughout the full term of the establishment period. The care specialist will do the following:

1. For each care cycle, perform surveillance and care of the native seed planting areas throughout the growing season to promote native seed growth.
2. After each visual inspection, but prior to executing the work for each care cycle, fill out the pertinent information required on the department provided worksheet "Native Seed Scouting Report". After all care activities have been completed for a care cycle, fill out the remainder of the same worksheet. Complete one worksheet per site per care cycle, sign the worksheet, and submit to the Region Environmental Coordinator.
3. Conduct a field assessment native plant survey during July or August for each seeding site. Fill out the department provided worksheet "Native Plant Survey" or an equivalent worksheet approved by the Region Environmental Coordinator. Complete one worksheet per site, sign the worksheet, and submit to the Region Environmental Coordinator.
4. Do a final examination of the native seed planting sites by December 1 of the establishment period. Fill out the department provided worksheet "Final Assessment of Native Plantings". Include required attachments, a written summary of management efforts for the year, a written summary of management recommendations for the following years, locations and description of areas of concern and a list of the established plant species at each site. Complete one worksheet per site, sign the worksheet, and submit to the Region Environmental Coordinator for review and approval.
5. Follow the Performance Standards contained in this article.

C.3 Re-Seeding

If the July/August field assessment finds that bare ground exceeds 10% of the native seeded area, re-seed all bare spots larger than 4 square feet. Re-seed all areas, at the earliest appropriate planting time. Areas to be re-seeded must be approved by the Region Environmental Coordinator before work begins.

C.4 Invasive Species and Weed Management

Identify and manage weeds within the Invasive Species and Weed Management Areas (including native seeding areas) shown in the plans. Common approaches to control invasive species and weeds within and near native prairie sites are described below. Submit other techniques to the Region Environmental Coordinator for approval.

C.4.1 General Herbicide

Do not begin the process of undesirable weed control and eradication using herbicides until native plant establishment is at a point where the native plants can be readily recognized and identified. Other weed control methods may be applied earlier as appropriate.

Herbicide applications will occur in the spring and fall, starting at the first sight of weeds, and will target invasive and non-native species as decided by the contractor and the Region Environmental Coordinator. Additional herbicide applications must be approved by the Region Environmental Coordinator but may be needed in order to meet the established performance criteria.

All herbicide(s) shall contain colored dye, such as "Bas-oil", mixed at a rate of four ounces to five gallons applied, to aid in identification of areas or objects that have received herbicide.

Persistent herbicides such as Atrazine are not to be used.

C.4.2 Spot Herbicide Treatment

Spot treatment entails the use of an absorbent material that has been soaked in an appropriate selective herbicide to control undesirable weeds. Apply herbicide at appropriate concentration. Identify all weeds and prairie plants when not in flower.

C.4.3 Spray Herbicide Treatment

Select the appropriate herbicide for treating newly emerging weeds. Spray weeds in the spring when emerging from the soil, and no more than 6 inches in height. Focus the herbicide application at the ground level to minimize drift onto nearby desirable species.

C.4.4 Inverted Cone Herbicide Treatment

Place a 3- to 4-inch diameter inverted cone over the sprayer nozzle by affixing it to the sprayer wand just above the point of attachment to the nozzle. The cone can be constructed by cutting off the narrow stem of a funnel so that only the cone remains. Remove the sprayer nozzle and fit the inverted funnel cone over the sprayer wand. Reattach the sprayer nozzle so the cone sits just above it and affix the cone onto the sprayer wand. Cover the unwanted vegetation with the cone and spray herbicide so that the drift is contained within the cone.

Treat undesirable cool season weeds such as Quackgrass, Kentucky Bluegrass, and Smooth Bromegrass by using grass-selective herbicides. Remove weeds in mid- to late fall after the warm season prairie grasses are dormant and the cool season weedy grasses are actively growing. Air temperature must be above 60º F to ensure satisfactory results. If the site contains significant components of cool season native grasses, obtain approval of the Region Environmental Coordinator before proceeding.

C.4.5 Mowing

During each growing season, defined as May 1 – October 1, mow the Invasive Species and Weed Management areas (including the native seeding areas) per the specifications below.

Mow when vegetation reaches a height of 12 inches. Set the mower height to 6 inches. Multiple mowing's will be required.

Mowing should be timed to occur before any weeds produce viable seeds to prevent future weed infestations. Mowing will not be allowed if target weed species possess mature seeds. Coordinate the scheduling of all mowing's with the Region Environmental Coordinator prior to performing this work.

Mowing should be performed only when soils are dry and not subject to rutting or compaction. Areas that are damaged by indiscriminate mowing shall be re-seeded at the expense of the contractor.

Selective mowing may be required once the native vegetation is established to reduce weed seed production. Mowing may not be possible in very wet areas.

Use a flail-type mower. Verify that the cut vegetation does not bury small seedlings with large clumps of plant debris. Remove all undesirable plant material from the landscape site. Mowing equipment shall be washed prior to using at project sites to minimize the spread of weedy species.

C.4.6 Mechanical Methods

Techniques include hoeing, cutting, girdling, and tilling.

C.4.7 Digging/Hand-pulling

Remove entire root to prevent re-sprouting. Use with small or young plants, sandy or loose soils, or when soils are damp.

C.5 Weedy Species

The following weedy species must be controlled in the Invasive Species and Weed Management areas as soon as they become evident/visible:

GRASSES

Common Name	Scientific Name
Tall Fescue	Festuca arundinacea
Reed Canary Grass	Phalaris arundinacea
Giant Reed Grass	Phragmites australis
Kentucky Bluegrass	Pro pratensis
Smooth Brome	Bromus inermis
Orchard Grass	Dactylis glomerata
Quackgrass	Elytrigia repens

BROADLEAF WEEDS

Common Name	Scientific Name
Perennial Pepperweed*	Lepidium latifolium
Japanese Knotweed	Polygonum cuspidatum or Fallopia japonica
Canada Goldenrod	Solidago canadensis
Canada Thistle*	Cirsium arvense
Crown Vetch*	Securigera varia
Field Bindweed*	Convolvulus arvensis
Horsenettle*	Solanum caroliniense
Leafy Spurge	Euphorbia esula
Wild Parsnip	Pastinaca sativa
White Sweet Clover	Melilotus alba
Yellow Sweet Clover	Melilotus officinale

**Denotes weeds that cannot be killed by Glyphosate and require the addition of the appropriate broadleaf herbicide to the glyphosate tank mix in the first herbicide treatment.*

C.6 Damages for Failing to Perform

If the care specialist fails to perform any of the required care cycles, the department will assess daily damages in the amount of $1,000 per day to cover the cost of performing the work with other forces. The department will assess these damages for each day the requirements of the care cycle remain incomplete, except when the engineer extends the required time period.

C.7 Acceptance Of Native Seed Areas

The Region Environmental Coordinator will make a final inspection near the end of the native seed surveillance and care period and accept those areas conforming to the following performance standards:

Native Seed Performance Standards

1. Native plants must be established, healthy, thriving, upright and green.
2. The Region Environmental Coordinator will randomly choose sampling sites. The contract work will be accepted if each sampling site is covered with at least 50% native species in at least 90% of the sampled site.
3. All Invasive Species and Weed Management Areas (including native seed planting areas) are stabilized and have been managed as described in this specification.
4. No invasive or nuisance species within the limits of the areas planted will comprise more than 25% of the native seeding areas. All noxious weeds have been destroyed.
5. Required surveillance and care of the native seed beds has occurred, required documentation has been delivered to the department, problem areas documented in the required reports have been addressed.

D Measurement

The department will measure Native Seed Surveillance and Care Cycles as each individual care cycle, acceptably completed. Each “Native Seeding Area”, as shown in the plans, shall receive the specified number of care cycles listed in the plan quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.20	Native Seed Surveillance and Care Cycles	EACH

Payment is full compensation for providing a Care Specialist, inspecting and caring for the native plant sites, documenting site visits and care activities, identifying weeds for removal; furnishing and applying herbicide; reseeding/overseeding; re-applying herbicide as needed; mowing; hoeing; cutting; girdling; tilling; digging; hand-pulling; disposing of weeds off-site. Multiple mobilizations and work efforts at the same site will not be paid for separately.

87. Dewatering for Pond A, Item SPV.0060.21; Dewatering for Pond B, Item SPV.0060.22; Dewatering for Pond EX-S, Item SPV.0060.23; Dewatering for Pond EX-N, Item SPV.0060.24; Dewatering for County Pond, Item SPV.0060.25.

A Description

This special provision describes dewatering of ponds including control of water during excavation and clay lining construction. A water control plan for dewatering of the pond shall be submitted as part of the Erosion Control Implementation Plan for the project.

A.1 Submittal

Water Control Plan

Submit to the department for approval the water control plan at least 30 days prior to installation of water control systems. Resubmit as appropriate if the system or any part thereof is modified during installation or operation.

Should requirements of any permit be different than requirements herein, the more stringent requirements shall control.

Water control plan shall as a minimum, include:

- Descriptions of proposed surface water control facilities including, but not limited to, equipment; methods; installation; standby equipment and power supply, pollution control facilities including silt removal facilities, discharge locations to be utilized; removal of water control systems; provisions for immediate temporary water supply as required by this section.
- The contractor shall submit shop drawings showing locations, dimensions, and relationships of elements of each water control system. The submittal shall include design calculations demonstrating adequacy of proposed water control or isolation systems and their components. The contractor shall provide manufacturer's literature describing installation, operation, and maintenance procedures for all components of the water control system.
- Design calculations demonstrating adequacy of proposed water control systems and components. The contractor may be required to demonstrate the systems proposed in the water control plan and to verify that adequate equipment, personnel, and materials are provided to dewater the excavations at all locations and times required.

If system is modified during installation or operation, revise or amend and resubmit Water Control Plan.

A.2 Control of Water

General

This section addresses the provisions for controlling, handling, disposing and treating surface water that may be encountered in pond excavations, as required for performance of the work; and maintaining the control of water facilities, including maintenance items such as the disposal of sludge from settling detention basins and treatment plants.

Dewater existing pond water to construct the expansion of the existing pond as shown on the plan.

The contractor is responsible for designing, furnishing, installing and maintaining dewatering system that accomplishes continuous control of water at all times during the course of construction, and shall provide adequate backup systems to accomplish control of water. The method of control, handling, and disposal of groundwater and surface water shall be by whatever means are necessary and in conformance with this section to obtain satisfactory working conditions and to maintain the progress of the work.

All required drainage, pumping, treatment, and disposal shall be done without damage to adjacent property or structures and without interference with the operations of other contractors, or the rights of public and private owners, or pedestrian and vehicular traffic.

The contractor at the engineer’s discretion shall modify the water control system at his own expense if, after installation and while in operation, it causes or threatens to cause damage to adjacent property or to existing buildings, structures, or utilities.

Regulatory Requirements

Storm water discharge to storm sewers, watercourses, lakes, and wetlands shall conform to the requirements of local, state, and Federal regulations.

B (Vacant)

C Construction

General

Continuously control, handle, treat and dispose water at all times during the course of construction to obtain satisfactory working conditions and to maintain the progress of the work.

Surface Water Control

Intercept and divert surface drainage away from the work sites by the use of dikes, curbwalls, ditches, sumps, or other means. Design surface drainage systems so that they do not cause erosion on or off the site. Control surface runoff to prevent entry of surface water into excavations and to prevent erosion on or off the site. Remove drainage systems when no longer needed.

Water Control in Excavations

Use water control methods that are appropriate, as determined by the contractor, to permit conditions, ground conditions, construction operations, and requirements of these plans and specifications.

Treatment and Disposal of Water

Discharge water in a manner that will not cause soil erosion at the discharge point. Discharge shall not cause sediment accumulation or flooding in any stream, storm sewer, or on adjacent properties.

Treat all water to remove suspended solids, oils, cement, bentonite, and other contaminants by use of settling detention basins, on-site treatment plant, or other means selected by the contractor. Design the treatment systems for the maximum discharge rates consistent with the means and methods selected by the contractor.

Protection of storm sewers and drains shall be in conformance with the local municipality Erosion Control Ordinance and the Wisconsin Construction Site Best Management Practices Handbook, latest revision. Any requirements and costs for such use shall be the responsibility of the contractor. Do not cause flooding by overloading or blocking the flow in the drainage facilities and leave the facilities unrestricted and as clean as originally found. Document the condition of the drainage facilities prior to and subsequent to their use. The engineer may independently verify the condition of such facilities. Repair or restore any damage to facilities as a result of the contractor's operations as directed by the authority having jurisdiction, at the contractor's expense.

Should requirements of any permit be different than requirements herein, the more stringent requirements shall control.

Remove suspended solids from water discharged from excavations, sufficient to preclude sediment deposition in the receiving sewer.

On completing the work, clean out and dispose of all sediments and residues in settling detention basins, treatment facilities, and the like. Dispose of sediments and residues according to applicable regulations.

D Measurement

The department will measure Dewatering for Ponds as each dewatering for pond, 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.0060.21	Dewatering for Pond A	EACH
SPV.0060.22	Dewatering for Pond B	EACH
SPV.0060.23	Dewatering for Pond EX-S	EACH
SPV.0060.24	Dewatering for Pond EX-N	EACH
SPV.0060.25	Dewatering for County Pond	EACH

Payment is full compensation for providing submittals, obtaining permits, furnishing materials, installation, all dewatering, protection, and maintenance.

The department will pay separately for other project dewatering.

88. Project Dewatering, ID 3080-01-40, Item SPV.0060.26; Project Dewatering, ID 3080-01-76, Item SPV.0060.27.

A Description

This section describes dewatering the site during construction or working with the water on-site in a manner that allows the project to be constructed according to the plans and specifications. This item includes removal of any water entering a trench or excavation including but not limited to groundwater, surface water runoff and/or trench dewatering, both clean and potentially contaminated.

Provide and maintain ample means and devices with which to promptly remove all water entering excavations, trenches, and other parts of the work and keep said excavations dry until the structures to be built therein are completed.

Installation of concrete or masonry structures will not be acceptable if placed in water or if water is allowed to rise over masonry or concrete and there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

The contractor is responsible for all work, materials and equipment required to comply with permit conditions to dewater the site. At a minimum, pump water into a settling tank, or alternate method approved by the engineer, to settle solids prior to discharge into the storm sewer for clean water and into the designated sanitary sewer for potentially contaminated water.

Potentially contaminated zones of groundwater may be encountered. Conform with the requirements of standard spec 205, pertinent parts of the Wisconsin Administrative Code (Department of Natural Resources Environmental Investigation and Remediation of Environmental Contamination, Chapters NR 700-736) and as supplemented herein. Comply with all permit requirements and applicable regulations and monitor the discharge volume of potentially contaminated water generated as necessary to meet the permit requirements. This bid item is intended for all sub-surface utility work for which dewatering may be necessary including sanitary sewer, water main, storm sewer, and electrical construction.

B General

Discharge clean water (of any type or from any source) to the storm sewer system. For the purposes of this project suspended solids will not be considered a type of contamination.

Provide all equipment and personnel necessary to conduct dewatering operations as required for the proper completion of the work. Prepare a dewatering plan and submit it to the engineer for review and approval prior to starting dewatering operations. The plan shall include a description of the proposed dewatering methods and maps or drawings indicating the location of the dewatering facilities and points of surface discharge of the water.

The contractor is solely responsible for choosing a method of water control that is compatible with the constraints defined. The contractor is responsible for the adequacy of the water control system and will take all necessary measures to ensure that the water control operation will not endanger or damage any existing adjacent utility or structure.

Design, install and operate the method or methods of water control in such a manner as to provide satisfactory working conditions and to maintain the progress of work. Design the methods and systems so as to avoid settlement or damage to adjacent property according to the applicable legislative statutes and judicial decisions of the State of Wisconsin. All required pumping, drainage and disposal of water will be done without damage to adjacent property or structures, or to the operations of other contractors and without interference with the access rights of public or private parties.

Review and approval of the dewatering plan does not relieve the contractor of the dewatering requirements stated in these specifications. The engineer assumes no liability for the performance or safety of the dewatering system.

Comply with all local ordinances and state statutes for the disposal of water from dewatering operations. Further, it is the contractor’s responsibility to contact the Wisconsin Department of Natural Resources Private Water Supply Section prior to construction for dewatering discharge requirements and permits and to comply with all conditions of the Department of Natural Resources. According to Paragraph

144.025(2)(e), Wisconsin Statutes, permits are required for all groundwater control wells that singly or in aggregate produce 70 or more gallons per minute. All wells shall be drilled and sealed according to requirements of the WDNR for installing and abandoning wells. The contact for obtaining well permits is:

Wisconsin Department of Natural Resources Private Water Supply Section
Box 7921
Madison, Wisconsin 53707
(608) 261-6421
http://dnr.wi.gov/topic/Wells/dewatering.html

File a copy of the permit with the owner 48 hours prior to commencement of any dewatering.

Discharge potentially contaminated water from the zones as indicated on the construction plan set or as directed by the engineer to the sanitary sewer. For the purposes of this project suspended solids shall not be considered a type of contamination. Do not discharge contaminated groundwater without prior approval from the Environmental Consultant.

Obtain a City of Madison Permit to Discharge to the Sanitary Sewer compliant with all local ordinances and state statutes. The permit will require that the contractor monitor the volume of total water discharged into the sanitary sewer and will determine the necessary reporting frequency. The contact for obtaining this permit is:

Megan Eberhardt
City of Madison Engineering
(608) 266-6432
meberhardt@cityofmadison.com

The City of Madison will be responsible for obtaining the necessary approvals from the Madison Metropolitan Sewerage District (MMSD) for disposal of potentially contaminated groundwater. This approval will be issued at the same time as the Permit to Discharge to the Sanitary Sewer. Submit a dewatering plan to the City of Madison for approval with the application for Permit to Discharge to the Sanitary Sewer.

The City of Madison contact for coordination with MMSD is also Megan Eberhardt.

C Construction

Supplement standard spec 205.3 with the following:

Water shall not be allowed in trenches while pipe is being laid.

No masonry shall be installed in water nor shall water be allowed to rise over masonry or concrete if there is danger of flotation or of setting up unequal pressures in the concrete until the concrete has set at least 24 hours and any danger of flotation has been removed.

Dewater in such a manner that assures safe working conditions and provides stable trench side slopes and trench bottom for adequate support of the pipe and appurtenances. Dewater sufficiently to minimize or eliminate groundwater pressures below the proposed trench bottom which otherwise may tend to cause boiling or a “quick” condition at the trench bottom. Where silty sands or other impervious soils are encountered at and/or below the pipe zone, the dewatering equipment must be adequate to relieve the groundwater pressure below the impervious soil layer and accomplish sufficient drainage of the impervious soils to provide a stable trench bottom.

Pump water from the dewatering operations directly to a minimum 1,500 gallon holding tank, or alternate method approved by the engineer, to allow for settlement of large solids. Periodically pump clean water from the top of the settling tank into the storm sewer system. Periodically pump potentially contaminated water from the top of the settling tank into the approved sanitary sewer. Provide a meter to measure the volume of potentially contaminated water discharged to the sanitary sewer system.

If free phase petroleum product, such as gasoline floating on the water, is observed during dewatering activities, terminate dewatering activities and notify the engineer and the Environmental Consultant.

Notify the engineer at least three days in advance of any proposed changes to the dewatering plan.

Any flooding or erosion damage caused by dewatering operations is the responsibility of the contractor. If flooding or erosion damage occurs, take immediate steps to eliminate those conditions and to correct any damage. The control of all surface and subsurface water, ice, and snow are considered part of the dewatering. Erosion control shall be exercised at all times, including the placement of silt fences, sedimentation basins and any other devices necessary for proper control.

Dispose of all water removed so as not to endanger public health, private and public property or completed work. Use only electrically driven pumps for dewatering operations. Comply with local requirements for noise control for all equipment utilized as part of the dewatering system (Madison General Ordinance 24.08). Provide sufficient mufflers or other noise reduction devices necessary to minimize the noise of the equipment. If ordered by the engineer, reduce noise to an acceptable level (as determined by the engineer) or supply an alternate system capable of meeting the noise requirements. This applies to any equipment utilized as part of the dewatering system.

Provide stand-by equipment to maintain continuous dewatering in the event of mechanical breakdown to part of the system

The contractor is responsible for removal and/or abandonment of dewatering wells. Removal and/or abandonment shall conform to all state and local regulations.

D Measurement

The department will measure Project Dewatering (project ID) as each project, acceptably completed.

Measure dewatering of potentially contaminated water and provide this information to the engineer at the frequency determined by the Permit to Discharge to the Sanitary Sewer. This information will not be used as a basis of payment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.26	Project Dewatering, ID 3080-01-40	EACH
SPV.0060.27	Project Dewatering, ID 3080-01-76	EACH

Payment is full compensation for furnishing all work necessary for pumping, measuring of potentially contaminated water, settling and discharging water, both clean and potentially contaminated; for paying permit fees required; for eliminating and correcting all flooding or erosion damage caused by dewatering operations.

No disposal fees are required by the City of Madison for discharge to the storm sewer system. The City of Madison will pay for any disposal fees required by MMSD for the discharge of water to the sanitary sewer system.

89. Install City Provided Sign, Item SPV.0060.30.

A Description

Perform the work according to the applicable provisions of standard spec 637 and 638.

B Materials

Contact the City of Madison, Chad Veinot at (608) 266-4767, to provide the sign plates required for installation under this item.

C (Vacant)

D Measurement

The department will measure Install City Provided Sign 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.0060.30	Install City Provided Sign	EACH

Payment is full compensation for installing sign plates provided by the City of Madison at the locations and supports as specified in the plans and all other incidentals required to perform the work.

90. Precast Sign Post Base, Item SPV.0060.31.

A Description

This special provision describes constructing and installing precast sign post bases at locations shown on the plans and as hereinafter provided.

B Materials

All materials furnished for the work shall meet the requirements for the class of materials named.

Specific reference is made to the following sections of the standard specifications:

Concrete Masonry	standard spec 501
Steel Reinforcement	standard spec 505

Concrete Masonry shall be of a 3,200-psi minimum strength in 28 days. The 2-inch x 24-inch +1/3-inch insert shall be an ASTMA Designation 120 A53 Fed Spec P404, Schedule 40 untreated black pipe 2-inch diameter, with a galvanized rigid conduit coupling installed.

C Construction

Form the 24-inch x 11-inch precast base according to the details in the plan. Weld the coupling and pipe over 50 percent of the circumference. Center the insert in the base and plumb with the vertical axis of the base, and place so that the coupling is flush 1/8 inch with the top of the troweled surface of the base. The bottom of the insert extends a minimum of 1/8-inch below the base and shall remain open to permit drainage. Weld 3/8-inch by 8-inch reinforcing bar to the insert 8 inches from the top of the base and 8 inches from the bottom of the base to prevent the insert from rotating within the concrete base.

Set the signpost bases at the locations shown on the plans. The center of the finished installation shall be 2'6" + inches from the face of the adjacent curb.

Upon request and reasonable notice from the contractor, the engineer will establish and stake the location for the sign post bases. The City of Madison Traffic Engineering Division Staff will verify all signpost base locations.

Coat the threads of the pipe and coupling in the base with graphite grease prior to assembly.

Install the base and pipe as a unit, level with the finished grade of the surrounding surface with the pipe plumb. Tamp the material used for backfilling around the base in 6-inch layers to ensure the installation will remain plumb. Provide a one-year warranty that the signpost base installation shall remain plumb.

Remove and dispose of all excess excavation, surplus material and debris resulting from operations and satisfactorily repair and restore other work damaged by operations.

D Measurement

The department will measure Precast Sign Post Base 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.0060.31	Precast Sign Post Base	EACH

Payment is full compensation for furnishing all materials; for the manufacture of the sign post base; for hauling, handling and installing the sign post base, including backfill.

91. Sign Post Base for Concrete Installation, Item SPV.0060.32.

A Description

This special provision describes constructing and installing the sign post bases in concrete sidewalk or pavement at locations shown on the plans and as hereinafter provided.

B Materials

The 2-inch x 16-inch sign post base shall be an ASTMA Designation 120 A53 Fed Spec P404, Schedule 40 untreated black pipe 2-inch diameter, with a galvanized rigid conduit coupling installed.

Waterproof anchoring cement for concrete shall be Unitex, Thorogrip 29/64 or equivalent.

C Construction

The sign post base shall consist of a 2-inch x 16-inch schedule 40 pipe with attached 2” rigid conduit galvanized coupling according to the details in the plan. Weld the coupling and pipe over 100 percent of the circumference.

Set the signpost bases at the locations shown on the plans. The center of the finished installation shall be 5'0" (2’6” for Advanced Street Name Sign Special installations) from the face of the adjacent curb or from the edge of paved shoulder. Upon request and reasonable notice from the contractor, the engineer will establish and stake the location for the sign post bases. The City of Madison Traffic Engineering Division Staff will verify all signpost base locations.

Box out all installations in hard surfaced areas (concrete) with a round PVC pipe with a minimum diameter of 3 inches or installed by drilling or core drilling a 3-inch hole all the way through the concrete to the base material. If drilling in architectural concrete pavement, cover the surface prior to drilling to protect the surface from drilling slurry. Coordinate all box out locations. With a temporary pipe 4 to 5 feet long, hand-tighten it into the insert. Drive the insert into the base material at a level/plumb position until the insert is flush with the top of the concrete. Shim insert to a level/plumb position with lag bolts or p.k. nails. All shims must be set below the concrete/insert. Remove temporary pipe, replace with permanent pipe, and tighten into insert with large pipe wrench until insert turns. Reset shims or add shims until pipe no longer turns. Retighten pipe and recheck level/plumb/top of concrete with insert. Patch concrete with a waterproof anchoring cement for concrete. Mix patch to a liquid consistency, not a paste. Pour patch until it is flush with the top of the insert. Recheck level/plumb/top of concrete with insert immediately due to fast setting time of cement. Additional cement may be required as it settles. Completed installation shall be level/plumb, solid, and able to support required sign post and signs. Patch shall be flush with adjacent concrete without exposed shims.

Coat the threads of the pipe and coupling in the base with graphite grease prior to assembly. Install the base such that the installed sign post will be plumb. Provide a one- year warranty that the signpost base installation shall remain plumb.

Remove and dispose of all excess excavation, surplus material and debris resulting from operations and satisfactorily repair and restore other work damaged by operations.

D Measurement

The department will measure Sign Post Base for Concrete Installation 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.0060.32	Sign Post Base for Concrete Installation	EACH

Payment is full compensation for furnishing all materials; for the manufacture of the sign post base; for hauling, handling and installing the sign post base, including drilling holes in concrete; and anchoring cement.

92. Temporary Lighting System Millpond Road Intersection, Item SPV.0060.33.

A Description

This special provision describes furnishing, installing, maintaining, and removing a temporary lighting system at Millpond Road intersection. The temporary lighting system includes a wood pole, luminaire with luminaire arm, overhead service conductor assembly, guy wires, conduit, aerial cable, and temporary utility electrical service required for an operational, temporary lighting system during construction. All work shall be according to standard spec 651.

B Materials

Furnish aerial cable consisting of an assembly of three No. 8 XLP insulated power conductors with an ACSR messenger (grounding) wire. Provide the quantity of parallel cable assemblies necessary to maintain lighting circuits.

Furnish Type 4 Wood Poles, 35’ long.

Protect any cable that extends from grade to 10 feet above grade by a plastic cable guard.

C Construction

Assemble and install the temporary lighting system as shown in the plans and in the plan details. Maintain 17' – 19' of clearance, including wire sag, over existing or finished grade, whichever is higher. Install wires in conduit on poles and make connections.

Install guy and mounting hardware, lighting equipment and hardware as shown on plans and details. Installation shall conform to standard spec 657, 659, and National Electric Code. Install wood poles according to standard spec 661.3.1.1

Arrange for all required electrical service modifications with the utility. Pay for the utility service installation, energy costs, and any service modifications required.

Request a lighting inspection of the complete temporary lighting system installation. Make request to the engineer at least 5 working days before requested inspection.

Maintain the temporary lighting system until closure of Millpond Road intersection. Maintenance includes, but is not limited to, replacement of burned-out luminaire, replacement of knocked down poles, and maintaining continuous operation of lighting system.

Provide contact information for the city and police department for repair purposes and be able to respond within 2 hours to the project site for a knockdown. All other maintenance needs shall be completed within 24 hours of notification.

Remove the temporary lighting system when the Millpond Road intersection is no longer in use. Restore the site to its previous condition, including backfilling post holes and compacting every 12 inches with engineer-approved material.

D Measurement

The department will measure Temporary Lighting System Millpond Road Intersection as each temporary lighting system, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.33	Temporary Lighting System Millpond Road Intersection	EACH

Payment is full compensation for furnishing, installing, operating, maintaining, and removing the temporary lighting system and for backfilling and restoring the site to match surroundings. Grounding components, guy wires, support cables, and rigid metallic conduit are incidental to this item. Payment also includes all utility charges for installation, disconnection, and energy service through project completion.

93. Survey Project 3080-01-40, Item SPV.0060.34; Survey Project 3080-01-75, Item SPV.0060.35; Survey Project 3080-01-76, Item SPV.0060.36.

A Description

Standard spec 105.6 and 650 are modified to define the requirements for construction staking for this contract.

Add the following to standard spec 105.6.1:

Horizontal and vertical control points, provided by the department, are generally at 1/2-mile intervals for horizontal control and at 1/2-mile intervals for vertical control. Control points will be provided in a hard copy and ASCII electronic format.

Replace standard spec 105.6.2 with the following:

The department will not perform any construction staking for this contract. The contractor shall perform all survey required to layout and construct the work under this contract, subject to engineer's approval.

The survey includes establishing horizontal and vertical position for all aspects of construction including but not limited to storm sewer, subgrade, base, curb, gutter, curb and gutter, pipe culverts, structure layout, pavement, barriers (temporary and permanent), electrical installations, supplemental control, slope stakes,

ponds, ITS, FTMS, ramp gates, parking lots, utilities, landscaping elements, irrigation system layout, installation of community sensitive design elements, traffic control items, fencing, etc.

The department may choose to perform quality assurance survey during construction. This quality assurance survey does not relieve the contractor of the responsibility for furnishing all survey work required under this contract.

Delete standard spec 650.1.

B (Vacant)

C Construction

Survey required under this item shall be according to all pertinent requirements of standard spec 650 and shall include all other miscellaneous survey required to layout and construct all work under this contract.

D Measurement

The department will measure Survey Project (Project) as each survey project, 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.0060.34	Survey Project 3080-01-40	EACH
SPV.0060.35	Survey Project 3080-01-75	EACH
SPV.0060.36	Survey Project 3080-01-76	EACH

Payment is full compensation for performing all survey work required to layout and construct all work under this contract.

94. Waste Water Control, Item SPV.0060.37.

A Description

Work under this item includes controlling or diverting sanitary sewer flows during reconstruction of the sanitary sewer.

B (Vacant)

C Construction

Provide a pump with a capacity of 400 gallons per minute and all associated equipment required to maintain a functioning sanitary sewer system during construction. It is not acceptable, at any time, to disrupt normal flow of wastewater in sanitary sewer service laterals without prior approval from the City of Madison. This condition also holds at the time of connection of an existing lateral to the new sewer main.

If the contractor elects to use bypass pumping as a means of wastewater control, the methods, equipment, type of hose, etc. are subject to approval by the engineer. Ramp any hoses crossing streets, driveways, parking areas, etc., to prevent damage to hoses. Contain spillage of wastewater to be within the utility trench and dispose of spillage into existing sewer downstream to previously

installed sewer piping. Spillage of wastewater to adjacent streets, lawns, etc. will not be tolerated. Should spillage occur, cease all construction operations immediately and begin cleanup operations. Clean site thoroughly prior to the resumption of any construction operations.

D Measurement

The department will measure Waste Water Control as each complete unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.37	Waste Water Control	EACH

Payment is full compensation for controlling or diverting all sanitary sewer flows during construction of sanitary sewer.

95. Reconstruct Bench and Flowlines, Item SPV.0060.38.

A Description

Work under this item includes the removal and replacement of the existing sewer access structure bench and flowline(s) as indicated in the drawings, or as required by the City of Madison, to restore the bench and flow line after completion of a tap connection as described under Sanitary Sewer Tap bid item.

B Materials

Furnish concrete materials according to the applicable provisions of standard spec 611.

C Construction

Notify the City of Madison of any potential restoration work and provide a minimum of three working days for completion of a field assessment of the structure in question.

Unless shown on the drawings, do not reconstruct bench and flowlines unless directed by the City of Madison.

Complete all work associated with this item according to section 503 of the City of Madison Standard Specifications. Provide a smooth trowel finish to all completed flowlines. Brushed flowlines will not be accepted.

D Measurement

The department will measure Reconstruct Bench and Flowlines as each individual bench and flowline reconstructed, 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.0060.38	Reconstruct Bench and Flowlines	EACH

Payment is full compensation for reconstructing and disposing of surplus materials.

96. Utility Line Opening (ULO), Item SPV.0060.39.

A Description

Excavate and uncover utilities for the purposes of determining elevation and potential conflicts, as shown on the plans or as directed by the engineer, and as hereinafter provided.

B (Vacant)

C Construction

The excavation will be done in such a manner that the utility in question is not damaged and the safety of the workers is not compromised.

The utility line openings will be performed as soon as possible and at least 10 days in advance of proposed utility construction to allow any conflicts to be resolved with minimal disruption. Where utilities are within 5 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. Utility line openings will include a trench up to 5 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

Coordinate all utility line openings with the engineer. Do not perform ULOs without engineer’s approval. Notify the utility engineers or their agents of this work a minimum of 3 days prior to the work so they may be present when the work is completed. Verify the need for performing ULOs with the engineer since some of the utilities may have been relocated prior to the start of construction.

Replace pavement open to traffic within 24 hours of the excavation.

D Measurement

The department will measure Utility Line Opening (ULO) by the unit, acceptably completed. Where utilities are within 5 feet of each other at a potential conflict location, only one utility line opening will be measured.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.39	Utility Line Opening (ULO)	EACH

Utility Line Opening, measured as provided above, will be paid for at the contract unit price each, which will be full compensation for the excavation required to expose the utility line, backfilling with existing material removed from the excavation, compacting the backfill material, restoring the site, and cleanup.

97. Construction Staking for Sanitary Sewer, Item SPV.0060.40.

A Description

Perform work according to the applicable provisions of standard spec 650.

B (Vacant)

C Construction

Set and maintain construction stakes or marks as necessary to achieve the required accuracy and to support the method of operations. Set and maintain a minimum of two construction stakes to establish location and grade of sanitary sewer structures according to the plans and details for sanitary sewer structures. Set and maintain construction stakes to establish location and grade of sanitary sewer main. Provide stakes that establish the horizontal and grade elevation of sanitary main at intervals of 25 feet for a minimum of 100 feet from each structure and at intervals of 50 feet thereafter. Determine offsets in conjunction with contractor requirements. Verify the invert elevations of existing structures which are to remain and be connected into. Locate all stakes included in this bid item to within 0.02 feet horizontally and establish the grade elevation to within 0.01 feet vertically.

Place additional intermittent stakes as necessary to provide staking information at critical areas such as utility, driveway, roadway, and structure crossings.

D Measurement

The department will measure Construction Staking Sanitary Sewer by the unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.40	Construction Staking Sanitary Sewer	EACH

Payment is full compensation for locating and setting all construction stakes; and for relocating and resetting damaged or missing construction stakes.

98. Sewer Electronic Markers, Item SPV.0060.41.

A Description

Work under this item includes installing Sewer Electronic Markers according to Article 503.2 of the City Standard Specifications. These sewer electronic markers will be installed where called for on the plan set above sanitary sewer.

B Materials

All materials are described in Article 503.2(f) of the City Standard Specifications. Markers will be provided by the City of Madison.

C Construction

Install Sewer Electronic Markers (sanitary) according to Article 503.2(f) of the City Standard Specifications.

Notify the engineer when marker balls are installed. Each marker ball will be tested by the city before completion of final pavement surface to confirm that it is installed and functioning properly. If it is not installed or functioning, excavate to expose the existing marker ball or lateral and place a new marker ball. No additional compensation will be provided for this work.

D Measurement

The department will measure Sewer Electronic Markers as each individual sewer electronic marker, 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.0060.41	Sewer Electronic Markers	EACH

Payment for Sewer Electronic Markers is full compensation for furnishing all work required to complete the installation and all associated work to provide a complete functioning system. The department will not pay for replacing those marker balls that are non-functional. Marker balls will be provided by the City of Madison.

99. Sanitary Sewer Tap, Item SPV.0060.42.

A Description

Work under this item includes the connection of a new lateral or main to an existing structure and the connection of an existing lateral or main to a new structure.

B Materials

Provide Kor-n-Seal, or approved equal, in the tapped hole, according to Standard Detail Drawing 5.7.31 of the City Standard Specifications.

C Construction

C.1 New Pipe to Existing Structure

Use a portable coring drill to produce a pipe opening that is round, clean and free of any pitting of the concrete.

Make a watertight connection of the pipe to the sewer access structure with a Kor-n-Seal or approved equal, according to Standard Detail Drawing 5.7.31 of the City Standard Specifications.

C.2 Existing Pipe to New Structure

Provide a flexible connector to connect the existing pipe to any new pipe which is required to make the connection to the structure.

Provide PVC (SDR-26, SDR-35, AWWA C900) that matches the existing pipe’s diameter, or the next larger diameter, to reconnect the existing sewer main or lateral. The PVC (SDR-26, SDR-35,

AWWA C900) sanitary sewer pipe is considered incidental to this bid item.

The pouring and construction of concrete benches and flowlines in new sewer access structures for the inlet or outlet pipes is not included in this bid item and is considered incidental to the bid item Sanitary Sewer Access Structure (Size).

The downstream pipe connection to a Sewer Access Structure (4-Foot Diameter) is considered incidental to the Sewer Access Structure (Size).

D Measurement

The department will measure Sanitary Sewer Tap as each individual sanitary sewer tap, 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.0060.42	Sanitary Sewer Tap	EACH

Payment is full compensation for providing all connectors and for coring.

100. Sanitary Sewer Access Structure (4-FT Diameter), Item SPV.0060.43; Sanitary Sewer Access Structure (5-FT Diameter), Item SPV.0060.44.

A Description

Work under this item includes installing Sanitary Sewer Access Structure at the depths and locations shown on the plan.

B Materials

Provide precast concrete Sanitary Sewer Access Structure (Size) meeting the requirements of Standard Detail Drawing 5.7.2, 5.7.15, and Article 507.3 of the City Standard Specifications.

Furnishing and installing Sewer Access Structure Frames and Covers, according to Standard Detail Drawing 5.7.16 of the City Standard Specifications, will be paid for separately under the Manhole Covers Type J, bid item.

C Construction

Install Sanitary Sewer Access Structure (Size) according to Article 507.3 of the City Standard Specifications. Maintain the normal flow of wastewater at all times during installation of the new sanitary sewer access structure and when connecting pipes to the new structure. All bypass pumping, temporary piping, and/or temporary connections, which are required to maintain the normal flow of wastewater throughout construction, is incidental to this bid item.

Construct concrete benches and flow lines as directed by the engineer.

D Measurement

The department will measure Sanitary Sewer Access Structure (Size) as each individual sanitary sewer access structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.43	Sanitary Sewer Access Structure (4-FT Diameter)	EACH
SPV.0060.44	Sanitary Sewer Access Structure (5-FT Diameter)	EACH

Payment is full compensation for installing sanitary sewer access structures, constructing benches and flow lines; for furnishing and installing all bypass or temporary piping and connections.

101. Sanitary Sewer Internal Chimney Seal, Item SPV.0060.45.

A Description

Furnish and install an internal chimney seal on all sanitary sewer access structures located within 100 feet of a street low point, in greenways, and where indicated on the plan.

B Materials

Provide an internal chimney seal consisting of a low-density polyethylene insert conforming to the Standard Detail Drawing 5.7.17–SAS Internal Chimney Seal of the City Standard Specifications or other equivalent chimney seal products as approved by the engineer.

C Construction

Install internal chimney seals according to the manufacturer’s instructions.

D Measurement

The department will measure Sanitary Sewer Internal Chimney Seal as each individual sanitary sewer internal chimney 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.0060.45	Sanitary Sewer Internal Chimney Seal	EACH

Payment is full compensation for the installation of the sanitary internal chimney seal.

102. External Sanitary Sewer Access Structure Joint Seal, Item SPV.0060.46.

A Description

Furnish and install sealed barrel joints on all sanitary sewer structures around the outside circumference of the Sewer Access Structure.

B Materials

Provide barrel joint seals consisting of flexible rubberized seal conforming to ASTM C923 held in place with stainless steel compression bands or butyl adhesive tape conforming to ASTM C877 or heat shrink sleeve over visco-elastic adhesive sealant. Manhole joint seals shall be a minimum of 9 inches wide. Acceptable products and manufacturers are the following:

1. Mac Wrap, Mar Mac Manufacturing Company, Inc.
2. NPC External Joint Seal, NPC, Inc.
3. EZ-Wrap, Press-Seal Gasket Corporation
4. Riser-Wrap, Pipeline Seal and Insulator, or equal.

C Construction

Install sealed barrel joints according to the manufacturer's instructions.

D Measurement

The department will measure External Sanitary Sewer Access Structure Joint Seal as each sewer access structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.46	External Sanitary Sewer Access Structure Joint Seal	EACH

Payment is full compensation for the installation of the external sewer access structure joint seal.

103. Adjust Sewer Access Structure Special, Item SPV.0060.47.

A Description

Work under this item includes adjusting existing Sanitary Sewer Access Structure (SAS) castings as called for on the plan set to the final proposed grades. This bid item is required because the casting adjustment is greater than 9 inches of vertical adjustment to set the casting to the final grade or the chimney was determined to be in poor condition. Manhole adjustments less than 9 inches will be paid for separately under Bid Item Adjusting Manhole Covers. Installation of offset cone and casting as called for on the plan will be considered incidental to this bid item. Rotation of an existing cone sections will be considered incidental to this bid item.

B Materials

Provide precast concrete barrel sections and manhole adjustment rings meeting the requirements of Article 507.3, as well as SDD 5.7.2 and 5.7.15 of the City Standard Specifications.

C Construction

Complete adjust SAS Special according to Article 507.3 of the City Standard Specifications. This bid item will require adjustment rings to be removed and concrete barrel sections equal in diameter of the existing structure to be installed. The maximum allowed adjustment on the Sewer Access Structure will not exceed 9 inches and the final configuration of the structure will be in accordance of SDD 5.7.2 and 5.7.15 of the City Standard Specifications. If the sewer access structure being adjusted is a poured in place structure (4 x 4, 5 x 5, 6 x 6), install a 4-foot diameter barrel section on the poured in place manhole rooftop and place a concrete collar where the barrel section connects to the manhole rooftop. Center the barrel section over the casting opening. If the existing casting is offset, sawcut the manhole rooftop to create an opening centering the barrel section on the manhole rooftop.

D Measurement

The department will measure Adjust Sewer Access Structure Special as each individual adjust sanitary sewer access structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.47	Adjust Sewer Access Structure Special	EACH

Payment is full compensation for adjusting sanitary sewer access structure, sawcutting the roof, and installing mastic and concrete collars.

104. Reconstruct MMSD Sanitary Sewer Structure, Item SPV.0060.48.

A Description

Work under this item includes the removal and/or replacement of the existing sewer access structure barrel sections and/or rotating flat manhole top, drilling new steps and removing existing steps to better align with improvements as indicated in the drawings or as required by MMSD.

B Materials

Manhole sections will be precast reinforced concrete, constructed according to ASTM C-478. Match the thickness of the new manhole sections to the thickness of the existing manholes. Place steps, M.A. Industries or equal, every 16 inches on center in all manholes and install per manufacturers recommendations.

C Construction

Reconstruct each manhole as described below. Rubber adjustment rings provided by MMSD are required for the top adjustment ring in roadways.

Station 329+40.8’MP’, 18’ RT MMSD MH07-249

The Existing manhole is 5-foot in diameter with a center opening in a 5-foot diameter top. Remove and discard the existing manhole top and then sawcut existing barrel section so new manhole top is 18 inches below finished grade to allow for 9 inches of adjustment rings and a new 9-inch casting. Casting will be provided by MMSD. Install a new manhole top with an offset opening and rotate opening so the location of the casting is outside the proposed concrete curb and gutter.

All work shall be completed in conformance with MMSD specifications. Permitting for work on MMSD manhole is anticipated to be $1,550 total (Tap Connection and Reconstruct MMSD Sanitary Sewer Structure)

D Measurement

The department will measure Reconstruct MMSD Sanitary Sewer Structure as each reconstruct MMSD sanitary sewer structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.48	Reconstruct MMSD Sanitary Sewer Structure	EACH

Payment is full compensation for removing and adding barrel sections or manhole tops to existing sanitary sewer manhole; for rotating manhole sections or tops on existing sanitary sewer structures; drilling new steps to align with realigned top section and removing existing steps that do not line up with realigned cone section; for furnishing all materials; for excavation, backfilling with granular backfill, compaction, bracing and shoring; for disposal of surplus excavated material, protection and support of existing utilities, and cleanup.

The department will pay separately for dewatering.

105. Abandon Sanitary Sewer – Pipe Plug, Item SPV.0060.49.

A Description

This work consists of plugging pipes as shown in the plans and hereinafter provided.

B Material

Provide concrete conforming to Article 301 of the City Standard Specifications.

C Construction

Abandon sanitary sewer pipe with a plug according to Article 203 of the City Standard Specifications. Provide replacement sanitary sewers and laterals or appropriate bypass pumping prior to abandoning sanitary sewer pipe.

Saw cut end of existing pipe and clean interior of pipe to create a good bonding surface. Form and pour a minimum 1 foot deep concrete plug completely filling the opening of the pipe.

Where structures are called out for removal or abandonment, plug pipes at the structure will be considered incidental to removal or abandonment of the manhole

Any plugs required to abandon the existing sanitary main where laterals are being extended will be considered incidental to sanitary sewer pipe bid items.

D Measurement

The department will measure Abandon Sanitary Sewer– Pipe Plug as each individual pipe plug, 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.0060.49	Abandon Sanitary Sewer – Pipe Plug	EACH

Payment is full compensation for all work in abandoning sanitary sewer-pipe plug as specified herein.

106. Construction Staking Water Main, Item SPV.0060.50.

A Description

Perform the work according to the applicable provisions of standard spec 650.

B (Vacant)

C (Vacant)

D Measurement

The department will measure Construction Staking Water Main by each water main system, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.50	Construction Staking Water Main	EACH

Payment is full compensation for locating and setting all construction stakes; for adjusting stakes to ensure compatibility with existing field conditions; and for relocating and resetting damaged or missing construction stakes.

107. Water Valve 6-Inch, Item SPV.0060.51; Water Valve 8 Inch, Item SPV.0060.52; Water Valve 12-Inch, Item SPV.0060.53.

A Description

Furnish and install water main valves and associated accessories. Work for this item also includes, but is not limited to:

1. Mechanical joint restraint:
2. Valve boxes and box extensions.
3. Valve box adjustments.
4. Establishing electrical conductivity across the valve.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

Valves 12 inches and smaller - Requirements:

1. Resilient Wedge Gate Valves.
2. Meet requirements of AWWA C509 or AWWA C515 - latest revision.
3. Supplied with mechanical joints.
4. Open to the left.
5. Non-rising stem.
6. O-ring packing.
7. 2-inch square operating nut.

Acceptable models include:

TABLE 1

Brand	Model
Kennedy	KS-FW 8571, KS-RW 7571 or equal
Mueller	A2360, A2361 or equal
Clow	F-6100 Model 2638, 2639, 2640 or equal
American Flow Control	Series 2500 or equal
American Flow Control	Series 2500 with Alpha Ends (restrained) or equal

Valve boxes:

1. Bingham and Taylor cast-iron.
2. Three piece screw type.
3. No. 6 round base.
4. 5-1/4-inch shaft.
5. With stay-put covers marked “WATER.”
6. Valve box covers/lids shall be smooth, round, standard drop in lids without grooves or ridges (Bingham and Taylor L1-5 model, or equal).

Paving Adapters:

1. Bingham and Taylor 6030 fully-threaded, screw type Rite Hite Adaptor.

Valve Box Alignment Devices:

1. All valves shall be supplied with a Gate Valve Adaptor as manufactured by Adaptor Inc., or equal.
2. Metal frame
3. Supplied with ¾-inch rubber gasket.
4. Sized to fit the brand of valve being supplied.

Valve Box Extensions:

1. Tyler, or equal
2. Screw type
3. 5-1/4-IN shaft
4. No. 58 - 12-IN long,
5. No. 59 - 18-IN long,
6. No. 60 - 26-IN long.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

Prior to installation, inspect all valves and associated accessories for:

1. Cracks or other handling damages.
2. Verification of bolt tightness.
3. Opening direction and number of turns to open.
4. Freedom of operation.
5. Cleanliness of valve ports, especially seating surfaces.

Set and join valves and associated accessories to the pipe with mechanical joints per Article 703 of the City Standard Specifications.

Always install valves in the closed position to prevent foreign material from causing damage.

Adjust valves following installation so they operate easily and properly.

Establish conductivity across valves by means of mechanical or field-welded bonding straps and any associated coating repairs per Section 702.3.1 (5) – 'Electrical Conductivity.' of the City Standard Specifications. Bonding straps shall be minimum 2 gauge copper wire capable of transmission of at least 500 amps, or engineer approved equivalent.

A valve box is required at every valve installation. Valve box installation requirements:

1. Ensure that the valve box does not transmit shock or stress to the valve.
2. Center the valve box over the valve operating nut using the valve box alignment device according to Standard Detail Drawing 7.06 – Water Valve Box Alignment of the City Standard Specifications.
3. Verify valve box alignment with a plumb bob centered on the operating nut. The box must be centered over the nut within the allowable tolerance of ½-inch, which ensures a minimum ¾ inch clearance between the box and the operating nut – See Standard Detail Drawing 7.06 – Water Valve Box Alignment for more details of the City Standard Specifications.
4. Valve boxes located on sloped surfaces of 3% or greater may not allow for alignment verification as described above and shall be visually assessed with the operation of a centered, unrestricted valve key.
5. Valve boxes located on mains installed at depths requiring valve box extensions shall incorporate a temporary PVC riser tube, or similar method, to ensure straight vertical alignment through the extended valve box.
6. Compaction around valve boxes should be according to Article 703 "Backfilling and Compaction" of the City Standard Specifications and this section.

7. Set the box cover at or below finished base course elevation depending on thickness of the asphalt binder course and finished asphalt surface to allow for the installation of a Rite-Hite Adapter.
8. Rite-Hite Adaptors, or approved equivalent valve box adaptors shall be fully threaded, screw-type adaptors. The use of “cheaters,” “non-threaded risers,” or “drop-in” extensions is prohibited.
9. Install Rite-Hite Adapter and verify that there is adequate adjustment in both directions in the valve box to reach proper finished asphalt grade. See Standard Detail Drawing 7.08 – ‘Typical Valve & Box Installation’ of the City Standard Specifications for more details.
10. Modifying the valve box or adapter in any way is prohibited, unless specifically authorized by the engineer.
11. Prior to paving binder course or finished asphalt surface, the adapter should be removed, and then reinstalled after paving, prior to rolling the asphalt.
12. Reset any valve boxes that have shifted so they are plumb and centered over the valve at any time throughout construction, and until formal acceptance of the project by the engineer.

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.0060.51	Water Valve 6-Inch	EACH
SPV.0060.52	Water Valve 8-Inch	EACH
SPV.0060.53	Water Valve 12-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.

108. Hydrant, Item SPV.0060.54.

A Description

This special provision describes furnishing and installing hydrants as shown on the plans and as hereinafter provided.

B Materials

Refer to Article 702 of the *City Standard Specifications* and this section.

1. Hydrant requirements:
    1) Hydrants are required to have “breakaway” capability.
    2) Acceptable models include:

Brand	Model
AFC Waterous	Pacer WB-67
Mueller	Super Centurion A423

2. Nozzle requirements:
    1) Side nozzles: Two at 2½-inch diameter.
    2) Pumper nozzle: One at 4½-inch diameter.
    3) National Standard threads.
    4) Chains attaching the caps to the hydrant.
    5) Embossed with the word OPEN and an arrow showing that the hydrant opens left.
    6) Valve opening: 5¼-inch with National Standard operating nut shape.

7) Painted red with blue nozzle caps – Waterous color M4152 (Houston Blue), or equal.

8) 360-degree top rotation.

9) “Dry top” operating threads to be sealed when open.

10) 6-inch mechanical joint bottom connection with conductive mechanical joint (no lead) gasket and necessary accessories.

3. Upper valve plate requirements:

    1) Brass with a brass-to-brass foot valve.

4. Drain valve facing requirements:

    1) Furnish hydrant with plastic drain valve facing (otherwise, drain tube/drain valve assembly).

5. Operating nut requirements:

    1) One-piece operating nut.

6. Reflective locating device:

    1) “Hydra-Finder” manufactured by RoDon Corp.

7. Extensions: Per manufacturer’s recommendations.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

1. Ensure that the engineer is present whenever:

    1) A hydrant is to be set.

    2) A hydrant has been set, prior to backfilling.

    3) A hydrant extension is to be installed.

    4) A hydrant is to be disassembled for adjustment or maintenance.

2. Be responsible for the proper operation of all hydrants on the project until the city formally accepts the water mains, and the warranty period has expired.

3. Unless directed otherwise, set all hydrants so the back of the hydrant is 8 feet from the associated property line.

4. Ensure that the hydrant is set so the bury-line is not below finished grade and not more than 3 inches above finished grade.

5. The base of the hydrant barrel may not exceed a depth of 9 feet below finished grade.

6. Hydrant extensions:

    1) Extensions may be necessary to bring the bury-line to finish grade.

    2) Notify the engineer at least two working days prior to installing an extension.

    3) Coordinate with the engineer to have the extension furnished.

    4) When an extension becomes necessary as a result of engineer-ordered grade adjustments during construction or plan revisions issued by the engineer, the city will furnish the extension and the installation labor.

    5) When an extension is necessary as a result of negligence, or when the planned depth is greater than the available hydrant length, supply an approved extension. Do not install the extension until the engineer is present.

    6) No more than one hydrant extension will be permitted per hydrant installation.

    7) Note that any subsequent adjustments to the hydrant elevation, including any extra fittings needed to meet these requirements, are considered incidental to the hydrant installation.

7. Restrain the full length of hydrants lead from the tee on the water main to the hydrant, including the hydrant valve and any associated fittings, with mechanical joint restraints. Push-on pipe joints are not permitted along the hydrant lead unless there is a continuous pipe dimension on the lead longer than the full-length of a new pipe. Under that condition, an approved joint-restraint locking gasket is required at the joint.
8. Install a full-size, unbroken 4-inch x 8-inch x 16-inch solid concrete masonry block, laid flat, in the excavation to provide a firm base for the hydrant. If a hydrant lead valve is designated on the plans, also install a full-size, unbroken 4-inch x 8-inch x 16-inch solid concrete masonry block, laid flat, in the excavation to provide a firm base for the valve.
9. Install solid concrete or poured concrete thrust blocking against undisturbed soil behind the base of the hydrant according to Article 703 of the City Standard Specifications.
10. Set the hydrant in a truly vertical position and securely brace it until backfilling is complete.
11. Rotate the hydrant so that the small nozzles are parallel to the curb line.
12. Establish conductivity to the hydrant barrel by means of mechanical or field-welded bonding straps and any associated coating repairs per Section 702.3.1 (5) – 'Electrical Conductivity.' of the City Standard Specifications. Bonding straps shall be minimum 2 gauge copper wire capable of transmission of at least 500 amps, or engineer approved equivalent.
13. Use 1-inch washed stone as backfill around the lower portion of the hydrant. Take special care to keep the weep holes/drain holes in the hydrant elbow open to allow drainage.
14. Cover the stone backfill with 6-mil polyethylene, or suitable geotextile fabric, to prevent loose dirt from filling in the voids in the stones.
15. Backfill the remainder of the excavation with approved material and compact evenly in lifts not exceeding 12 inches. Ensure that the pressure of the backfill on the stem is evenly distributed.
16. Restore all disturbed turf areas associated with the hydrant installation.
17. Install ½-inch expansion joint around hydrant barrel when hydrant installation is located in concrete pavement. Install expansion joint filler material according to Section 303.2(d) of the City Standard Specifications

D Measurement

The department will measure Hydrant as each unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.54	Hydrant	EACH

Payment is full compensation for furnishing and installing the hydrant, gravel pocket, and any offset fittings or extensions required; and for all excavating and backfilling.

109. Salvage and Relocate Hydrant and Valve, Item SPV.0060.55.

A Description

This special provision describes relocating existing fire hydrants and valves as shown in the plans.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

Water main to which existing hydrant is connected may be de-pressurized, if necessary, for relocation work. Take care to minimize water outage times. Outages of up to 4 hours are acceptable. Notify all existing water users of the time and estimated duration of water outage required for connections. Provide a minimum of 24 hours' notice. Outages beyond 4 hours will require that a temporary water service be installed, unless permission to extend the outage is approved by the engineer and individual users 24 hours prior to outage.

If the hydrant lead valve is adequately restrained to the water main tee:

1. Shut off the hydrant lead valve and excavate as necessary along the hydrant lead.
2. Add or remove fittings, extending or shortening the hydrant lead as shown on the drawings or as ordered by the engineer, to properly install the hydrant according to Article 704 – 'Furnish & Install Hydrant'.

If the hydrant does not have a valve, or if the valve is not adequately restrained to the main:

1. Shut off the water main after coordinating with the engineer.
2. Excavate along the hydrant lead and cut the lead.
3. Install valve per Article 704 and securely restrain the new valve back to the water main tee.
4. Return the water main to service as soon as practical and safe.
5. Add or remove fittings, extending or shortening the hydrant lead as shown on the drawings or as ordered by the engineer to properly install the hydrant according to Article 704 – 'Furnish & Install Hydrant'.

If existing hydrant and valve are designated for salvage and use in new work, remove them from the existing location, clean, handle, store, transport to, and install at the new location without damaging the hydrant or valve. Replace any materials damaged by the contractor.

Coordinate closing of existing valves with owner.

Excavate for and set hydrant and valve in a plumb condition at new location shown on plans. Install pumper nozzle of hydrant pointing toward street.

Rotate, add or remove fittings, extending or shortening the hydrant lead as shown on the drawings or as ordered by the engineer, to properly install the hydrant according to Article 704 – 'Furnish & Install Hydrant' of the City Standard Specifications.

Backfill and compact the excavation to an elevation 6 inches below the finished grade of the street terrace according to Article 704 – 'Furnish & Install Hydrant' of the City Standard Specifications.

Restore all disturbed turf areas associated with the hydrant relocation/installation.

D Measurement

The department will measure Salvage and Relocate Hydrant and Valve as each unit of work, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.55	Salvage and Relocate Hydrant and Valve	EACH

Payment is full compensation for excavating and removing existing hydrant, valve, and tee as required, temporary capping the water main, installing the hydrant and valve at its new location, rotate, add or remove fittings, extending or shortening the hydrant lead furnishing and installing gravel pocket, and backfilling excavations.

110. Remove Hydrant and Valve, Item SPV.0060.56.

A Description

This special provision describes removing existing hydrant and reinstalling it at a new location as shown on the plans, and according to the applicable provisions of standard spec 204, City of Madison spec 702 and as hereinafter provided.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

Conform bedding and backfill materials to the requirements for water main pipe.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

1. Do not proceed with hydrant abandonments until the existing water main has been abandoned.
2. For screw type hydrants:
    1) Unscrew the hydrant with chain tongs (or like), and remove the high stock, and salvage for the engineer.
    2) Remove the frost case and salvage for the engineer.
3. For non-screw type hydrants:
    1) Excavate to the bottom of the hydrant and disassemble/disconnect it from the hydrant lead.
    2) Remove the hydrant and salvage for the engineer.
4. Backfill the remaining opening/excavation with existing material and compact.
5. Use select fill material if there is not enough approved existing backfill material.
6. Restore all disturbed turf areas associated with the hydrant abandonment.
7. Hydrants that are damaged due to negligence will not be paid.
8. Hydrants damaged during this work will be billed $635.00 by the engineer.
9. Associated Valves shall be removed or abandoned.

D Measurement

The department will measure Remove Hydrant and Valve as each individual hydrant, acceptably salvaged.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.56	Remove Hydrant and Valve	EACH

Payment is full compensation for excavating; for removing the existing hydrant, plugging of the existing main, furnishing and installing gravel pocket and any offset fittings and extensions required, and reinstalling the hydrant at a new location; and for backfilling the excavations.

111. Adjust Water Valve Box Sections, Item SPV.0060.57.

A Description

Work under this item may include a combination of the following:

1. Adjust existing water valve boxes to ½-inch below finished grade.
2. In addition to the work described in (1), furnish and install a new water valve box top casting and lid where the engineer determines existing valve box top section is damaged or non-functioning.
3. In addition to the work described in (1) and (2), furnish and install a new lower valve box section(s) where the engineer determines existing lower valve box sections to be damaged or non-functioning.
4. If full replacement of existing valve box is required, perform the replacement installation according to Section 704.6 – ‘Furnish & Install Water Valve.’ of the City Standard Specifications.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

Refer to Article 704 – ‘Furnish & Install Water Valve’ of the City Standard Specifications and this section.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

Refer to Article 704 'Furnish & Install Water Valve' of the City Standard Specifications and this section.

1. If the engineer determines that an existing valve box is in acceptable overall condition and alignment, adjust the existing valve box to a depth at finished grade within appropriate tolerances.
2. If the engineer determines that an existing valve box is improperly aligned or otherwise damaged and unacceptable, excavate and expose the existing water valve box to the depth needed to install a new top casting with a new lid, center the valve box over the operating nut and adjust the valve boxes to finished grade.
3. If the engineer determines that the entire existing valve box is unacceptable, excavate, remove and replace the bottom section of the valve box in addition to the work described above.
4. Extensions or replacement valve box materials may be required and will be paid as listed below.
5. Ensure that all adjusted valve boxes are centered over the valve operating nut and free of dirt and debris when complete.
6. Compaction around valve boxes shall be according to Article 703 "Backfilling and Compaction" of the City Standard Specifications and this section.

D Measurement

The department will measure Adjust Water Valve Box Sections 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.0060.57	Adjust Water Valve Box Sections	EACH

Payment is full compensation for providing all required materials, exclusive of valve box and cover designated for adjusting; and for removing, reinstalling and adjusting the valve box.

112. Connect to Existing Water System, Item SPV.0060.58.

A Description

Connect to Existing Water System consists of all means and methods, equipment, tools, labor, and incidentals necessary for making a plug-removal connection or a cut-in connection to existing water mains, including thrust restrain against and water-tight capping of existing water mains associated with the work.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

1. Excavate and expose the existing water main to a point 18 inches below the bottom of the pipe at the proposed location of the plug-removal connection or cut-in connection.
2. Shut off all valves required to isolate the exposed pipe segment. Be responsible and properly equipped for valve-turning at all times while doing such work.
3. Place a water pump at the bottom of the excavation for dewatering, as needed. When cutting out sections of pipe proceed slowly and ensure dewatering efforts prevent the water level within the excavation from rising above the invert elevation of the exposed pipe.
4. Before placing new pipe and fittings on the exposed end of the existing fitting or the cut-off end of the existing pipe, disinfect the new fitting or valve by swabbing or soaking thoroughly according to Section 703 of the City Standard Specifications.
5. Fasten new fittings to existing fittings or ductile iron pipes as described in Article 703 of the City Standard Specifications. For connections to existing cast iron or other existing pipe materials, secure the new pipe or fitting with threaded rods or approved repair clamps according to the Standard Detail Drawings in the City Standard Specifications.

6. Any required fittings, pipe, solid sleeves or repair clamps required along the run of existing water main to perform the cut in connection, up to a distance of 10 feet, is considered incidental to making the cut in connection.
    1) Payment for pipe and fittings along the run of existing water main will only be considered when the plans require existing main replacement along the run of existing main exceeding 10 feet in length, or if directed by the engineer to replace additional existing main during construction.
    2) Valve connections remain eligible for separate valve installation payment under 704.6 of the City Standard Specifications.
7. All cut-in connections and tee branch connections require concrete thrust restraint in addition to mechanical joint restraint. See Article 703 of the City Standard Specifications and the Standard Detail Drawings for concrete thrust restraint requirements in the City Standard Specifications.
8. For cut-in connections or as otherwise necessary, secure the disconnected end of the existing pipe with either a pipe plug or a cap fitting, as approved by the engineer. Place standard thrust blocking between the end of the existing pipe and the new fitting, unless specified otherwise in the Contract Documents or as directed by the engineer.
9. Install a high potential galvanic anode per Section 704.31 – 'Furnish and Install Anode' of the City Standard Specifications at all water main connections consisting of new ductile iron water main connecting to a dissimilar existing water main material, including unwrapped ductile iron pipe, or as otherwise directed by the engineer.
    1) Anode installations are not required at locations where new ductile iron pipe connects to service lateral piping, including large-diameter service lateral piping, unless otherwise specified on the plans or required by the engineer.

D Measurement

The department will measure Connect to Existing Water System 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.0060.58	Connect to Existing Water System	EACH

Payment is full compensation for the connection of new water main to existing water main including excavating and exposing existing water main; coordination with local water utility; notifications to affected properties; for furnishing and installing required fittings and couplings; and for backfilling the excavation.

113. Abandon Water Valve, Item SPV.0060.59.

A Description

This special provision describes abandoning existing valves as shown on the plans, and according to the applicable provisions of standard spec 204, City of Madison spec 702 and as hereinafter provided.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

Proceed with work only after the existing water main has been abandoned.

Close valve. Excavate, remove, and dispose of existing valve box. Abandon valve in place. Backfill and compact excavation with excavated material.

If the entire valve box cannot be removed, remove the top casting of the valve box to a point at least 3 feet below the final elevation, and then backfill the opening.

D Measurement

The department will measure Abandon Water Valve as each individual valve, acceptably abandoned.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.59	Abandon Water Valve	EACH

Payment is full compensation for abandoning valve in place; for removing and disposing of valve box; and for all excavating and backfilling.

114. Abandon Existing Water Main, Item SPV.0060.60.

A Description

This special provision describes abandoning existing piping by sealing the ends of the pipe as shown on the plans, and according to the applicable provisions of standard spec 204, City of Madison spec 702 and as hereinafter provided.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

Concrete for sealing ends of pipe shall be any grade of concrete as specified in standard spec 501.3.1.3.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

Thoroughly clean the end of the pipe at the location to be sealed. Seal end of pipe with a minimum 2 feet plug of concrete.

Place and compact backfill as specified for water main pipe.

D Measurement

The department will measure Abandon Existing Water Main as each individual pipe seal, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.60	Abandon Existing Water Main	EACH

Payment is full compensation for excavating and exposing the end of the pipe to be abandoned; for cleaning the pipe and installing a concrete plug; and for backfilling the excavation.

115. Cap Existing Water Main, Item SPV.0060.61.

A Description

This special provision describes cutting existing water main and capping as shown on the plans, and according to the applicable provisions of standard spec 204, City of Madison spec 702 and as hereinafter provided.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

1. Prior to proceeding with the cut-off, perform the required water main shut-off notifications.
2. When authorized to proceed, isolate and shut off the existing water main.
3. Cut off the water main at the location designated for abandonment.
4. Install a concrete pipe plug in the end of the existing main which is to be abandoned.

5. On the end of the water main which is to remain in service:
    1) Install a restrained mechanical joint cap over the cut end of the existing water main, or within 2 feet of a fitting or live-tap.
    2) Otherwise, install a restrained mechanical joint plug fitting into a new or existing fitting located at the end of the main.
6. If the water main cut-off work is intended to remove and replace an existing fitting, valve, or segment of pipe, cut off as designated, remove the existing material and replace it with the new fittings and/or the lengths of pipe and solid sleeves necessary to reconnect to the existing main.
7. Disinfect any associated materials by swabbing methods according to Article 703 of the City Standard Specifications.

D Measurement

The department will measure Cap Existing Water Main as by each individual acceptably completed unit.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.61	Cap Existing Water Main	EACH

Payment is full compensation for excavating and exposing the end of the pipe to be cut; for cleaning the pipe and installing a mechanical joint cap, thrust blocking, and for backfilling the excavation.

116. Water Utility Line Opening, Item SPV.0060.62.

A Description

Water Utility Line Opening (Water ULO) shall include all work, materials, coordination, equipment, and incidentals required to locate and expose an existing utility at the location indicated on the plan and as directed in the field using open cut methods or vacuum technology.

B Materials

Refer to Article 508 of the City Standard Specifications and this section.

C Construction

1. Open Cut Methods

    A single Water ULO shall include a trench up to a maximum of 5 feet long, as measured at the trench bottom, and of any depth required to locate the intended utility. Multiple utilities may be uncovered with no additional compensation.

2. Vacuum Technology

    A single Water ULO shall include the use of vacuum excavation investigation technology to locate the marked utility at its proposed / existing crossing with the City of Madison utility. Should the number of vacuum excavations exceed 5 and the utility is still not located, a second Water ULO shall be paid by the city. Multiple utilities may be uncovered with no additional compensation.

    Work shall be required to locate the limits of any utility package including the top and bottom elevations and width of package for any package exceeding 1 foot in any dimension to complete contracted work.

    The engineer or his/her agent shall be notified of this work so that they may be present when the utility is exposed. The grades of the utility lines shall be determined by the engineer, and the utility companies will be advised by the engineer as to their adjustment required. The contractor shall then backfill and maintain the openings. This work shall be completed a minimum of 3 days prior to any work being anticipated in the immediate area of the Water ULO, to allow sufficient time for redesign of the affected utility if so required.

    Work necessary to expose existing underground facilities that are part of the contractor’s statutory obligation during the normal storm sewer, sanitary sewer, electrical conduit or water main installation shall be considered as incidental to those respective items and will not be paid for as utility line openings.

Restore the Water ULO site to a safe condition commensurate with the condition of the construction site at the time the Water ULO is completed.

D Measurement

The department will pay for each Water Utility Line Opening as described above.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.62	Water Utility Line Opening	EACH

Payment is full compensation for locating and measuring the utilities, and acceptable restoration of the area.

117. Water Main Insulation, Item SPV.0060.64.

A Description

Install rigid board or tubular insulation to insulate water mains and/or water service laterals.

Styrofoam insulation is required when:

1. The top of water main or service lateral has 5 feet of cover or less.
2. The water main or service lateral crosses below storm sewer piping.
3. When otherwise specified on the drawings or as directed by the engineer.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

1. Rigid Board insulation requirements:
    1) Thickness: 2-inch (minimum).
    2) R-Value: 5 per inch of thickness (minimum).
    3) Minimum strength: 25 psi.
    4) High-density polystyrene board as manufactured by Dow Chemical Co., or equal.
    5) 4-foot by 8-foot sheets.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

1. After pipe installation, place bedding material and compact to a level 6 inches above the top of pipe. Place insulation board in the trench centered over the pipe on a level surface in order to provide proper support for the insulation.
2. Following installation of the insulation, place and compact the remaining bedding/cover material to the top of the pipe zone, at least 12 inches above the top of pipe, and then backfill and compact the remainder of the trench.

D Measurement

The department will measure Water Main Insulation by each 4-feet by 8-feet sheet of insulation, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.64	Water Main Insulation	EACH

Payment for the Water Main Insulation bid items is full compensation for providing, protecting, and storing insulation materials on the project; for placing in water main trench and backfilling to avoid breakage.

118. Clay Anti-Seep Collar, Item SPV.0060.65.

A Description

This special provision describes furnishing and installing low permeable clay around pipes at pond outlet control structures at the locations shown on the plans.

B Materials

Furnish materials and testing of materials as specified in Item 640.1303.S of these special provisions.

C Construction

Construct clay anti-seep collars to the locations and extents as shown in the plans.

Construct, place, and compact clay for anti-seep collars as specified in Item 640.1303.S of these special provisions.

D Measurement

The department will measure Clay Anti-Seep Collar as each individual clay anti-seep collar, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.65	Clay Anti-Seep Collar	EACH

Payment is full compensation for dewatering areas of site where the low permeable clay is to be placed; for furnishing and placing and compacting the low permeable clay.

119. Landmark Reference Monuments Special, Item SPV.0060.66.

A Description

This special provision describes preserving the location and constructing new reference monuments for existing Public Land Survey System (PLSS) section corner monuments within the proposed construction limits.

B Materials

The department can furnish aluminum monument caps if necessary. Otherwise, all materials for the monumentation and witness ties shall be the responsibility of the contractor to provide. Any monuments that satisfy Wisconsin Administrative Code Chapter AE-7 will be acceptable.

C Construction

Complete the work according to the pertinent requirements of standard spec 621.3 and as follows:

Obtain existing tie sheets from the Dane County Surveyor. Locate and verify existing PLSS monuments and ties. Furnish, and install if necessary, temporary and/or permanent ties. Provide a temporary tie sheet to the department and the Dane County Surveyor, for use by the public during the construction phase of the project and before the final monumentation is complete.

Perpetuate and/or reset all PLSS monuments and witnesses under the direction of a State of Wisconsin Licensed Professional Land Surveyor. Prepare the temporary and final PLSS monument records according to the Wisconsin Administrative Code Chapter AE-7. Prepare and File new monument records with the Dane County Surveyor according to AE-7 and provide a copy of the same to the Wis-DOT SW Region-Madison Survey Coordinator. This work shall be overseen and completed by a State of Wisconsin Licensed Professional Land Surveyor.

The approximate location of the section corners that will likely be disturbed due to the proposed construction:

Landmark Reference Monument				
Station	**Offset**	**Township**	**Range**	**Section Corner**
537+71.61’NB’	14.31’ LT	07N	10E	25

Notify the Dane County Surveyor and the Wis-DOT/SW Region-Madison Survey Coordinator five working days prior to construction operations that may disturb existing monuments, with pertinent questions or for department provided monument caps.

D Measurement

The department will measure Landmark Reference Monuments Special by each unit, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.66	Landmark Reference Monuments Special	EACH

Payment is full for furnishing a Professional Land Surveyor; obtaining existing PLSS monument record tie sheet(s); preparing, providing and filing temporary/final PLSS monument record tie sheet(s) from a Professional Land Surveyor; all survey work related to the perpetuation process; the furnishing and placing of all PLSS survey monuments; the furnishing and placement of any necessary witness ties; the removal of the existing monument(s) if necessary; excavating for the placement of the new monument(s) if necessary.

120. Seeding Native Pollinator Mix Upland, Item SPV.0085.01; Seeding Native Pollinator Mix Swale, Item SPV.0085.02.

A Description

This special provision describes furnishing and sowing the required native seed mix on areas shown in the plans.

B Materials

B.1 Native Seed

B.1.1 Labeling

Each native seed species will be packaged separately for each seed mixture. Packages for each species shall document seed test and date, mix composition, and the following information:

1. Scientific name of genus and species (subspecies and variety as necessary).
2. Guarantee that seeds are true to species.
3. Bulk Weight
4. PLS Weight
5. Percent PLS
6. Year of harvest and any specialized treatments that have been applied to ensure or enhance germination.
7. Seed Origin (geographical location)
8. Seed supplier contact information including company name, address, phone number, and contact person’s name and e-mail address.
9. Percent Weed Seed
10. Noxious Weeds Found

Provide copies of shipment and certification paperwork to the Region Environmental Coordinator before the native seed mixtures arrive at the landscaping site.

B.1.2 Purity and Germination

Seed lots with testing data over 12 months old will be rejected. Seed tests shall be provided for each individual seed lot, with the following required information:

1. Seed Origin and Source
2. Crop Year
3. Date of Seed Test
4. % Purity
5. % Germination
6. % Inert Material
7. % Other Crop Seed and Other Crop Species
8. % Weed Seed (as allowed per standards of the Wisconsin Crop Improvement Association)
9. Noxious Weeds Found (none allowable)

No seed lots containing Wisconsin Noxious Weeds will be approved for native prairie plantings, as per the list of noxious weed species identified by the Wisconsin Crop Improvement Association, https://wcia.wisc.edu/2015Standards09102015.pdf.

B.1.3 Inoculation

All legume seeds shall be inoculated with fresh Rhizobium bacteria of the appropriate strain for each legume species prior to seeding.

B.1.4 Storing Seed

Store any seed delivered before use in a way that protects it from damage by heat, moisture, rodents, or other causes. Discard and replace, at no cost to the department, any previously tested and accepted seed that becomes damaged. Seed should not be stored on site more than seven days.

B.1.5 Native Seed Mixtures

The following Native Seed Mixtures will be used within the native seed planting areas, dependent on upland or swale conditions:

The seed mixtures shall be composed of seeds of the proportions, by weight, listed below.

Species	**Common Name**	Mix Upland PLS Oz/Acre	Mix Swale PLS Oz/Acre
Forbs			
Alisma subcordatum	Common Water Plantain		1.0
Allium cernuum	Nodding Wild Onion	3.4	
Asclepias incarnata	Swamp Milkweed		2.0
Asclepias syriaca	Common Milkweed	6.5	
Baptisia alba	White Wild Indigo	2.5	
Coreopsis tripteris	Tall Coreopsis		1.0
Dalea purpurea	Purple Prairie Clover	2.6	
Desmodium canadense	Showy Tick Trefoil	5.8	
Drymocallis arguta	Prairie Cinquefoil	0.7	
Echincaea purpurea	Broad-Leaved Purple Coneflower	4.0	
Euthamia graminifolia	Common Grass-Leaved Goldenrod		0.5
Eutrochium maculatum	Spotted Joe-Pye Weed		1.0
Heliopsis helianthoides	False Sunflower	2.0	
Iris virginica v. shrevei	Blue Flag		4.0
Liatris spicata	Marsh Blazing Star		1.0

Species	Common Name	Mix Upland PLS Oz/Acre	Mix Swale PLS Oz/Acre
Lycopus americanus	Common Water Horehound		0.5
Mimulus ringens	Monkey Flower		0.5
Monarda fistulosa	Wild Bergamot	1.3	
Oligoneuron rigidum	Still Goldenrod	1.7	
Penthorum sedoides	Ditch Stonecrop		1.0
Pycnanthemum virginianum	Common Mountain Mint		0.5
Rudbeckia hirta	Black-Eyed Susan	2.4	
Rudbeckia triloba	Brown-Eyed Susan		1.0
Senna hebecarpa	Wild Senna		1.0
Silphium terebinthinaceum	Prairie Dock		1.0
Solidago speciosa	Showy Goldenrod	1.0	
Symphyotrichum laeve	Smooth Blue Aster	1.7	
Symphyotrichum novae-angliae	New England Aster		0.5
Verbena hastata	Blue Vervain		1.5
Verbena stricta	Hoary Vervain	2.5	
Zizia aurea	Golden Alexanders	2.2	2.0
	Forbs Sub Total:	**40.3**	**20.0**
Permanent Grasses/Sedges			
Andropogon gerardii	Big Bluestem		4.0
Bouteloua curtipendula	Side-Oats Grama	41.9	
Elymus virginicus	Virginia Wild Rye	89.6	
Carex cristatella	Crested Oval Sedge		0.5
Carex lurida	Bottlebrush Sedge		3.0
Carex spp.	Prairie Sedge Species		8.0
Carex vulpinoidea	Brown Fox Sedge		3.0
Elymus canadensis	Canada Wild Rye		16.0
Elymus virginicus	Virginia Wild Rye		16.0
Juncus canadensis	Canadian Rush		1.0
Panicum virgatum	Switch Grass		3.0
Schizachyrium scoparium	Little Bluestem	59.4	
Scirpus atrovirens	Dark Green Rush		2.0
Scirpus cyperinus	Wool Grass		0.5
Spartina pectinata	Prairie Cord Grass		3.0
Sporobolus compositus	Rough Dropssed	18.7	

Species	Common Name	Mix Upland PLS Oz/Acre	Mix Swale PLS Oz/Acre
Permanent Grasses/Sedges Sub Total:		**209.6**	**60.0**
Avena sativa	Common Oat	512.0	512.0
Temporary Cover Total:		**512.0**	**512.0**
	TOTAL:	**761.9**	**592.0**

Verify and inspect individual seed species at the grower's nursery, the place of collection, or at the collector's holding site. Recommend the seed lots for mixture. Seed lots must be approved by the Region Environmental Coordinator prior to blending any seed. Verify and inspect the final mixtures and recommend the mixtures to the Region Environmental Coordinator for approval. Inform Region Environmental Coordinator of any concerns with the seed prior to sowing.

Furnish copies of seed bag tags and/or seed tests results for each seed lot, performed by a certified seed testing lab to the Region Environmental Coordinator.

All seed shall be Pure Live Seed (PLS) and originating and obtained from Wisconsin, Minnesota, Eastern Iowa or Northern Illinois nurseries, specializing in growing native species from Upper Midwestern genotypes in Zone 5a or lower of the US Agricultural Research Service, Plant Hardiness Zone Map, Miscellaneous Publication Vol. No. 1475, Issued January, 1990, Updated January 24, 2012, http://planthardiness.ars.usda.gov/PHZMWeb/

Ensure that all seed used is cold, dry stratified.

All substitutions are to be approved by the Region Environmental Coordinator.

Table of Minimum Requirements for Native Seed Mixtures

	% Forbs by Weight	% Permanent Grasses/ Sedges by Weight	# of Forbs	# of Permanent Grasses/ Sedges	# of Total Prairie Species per Mix
Seeding Native Pollinator Mix Upland	40	60	15	4	19
Seeding Native Pollinator Mix Swale	31	69	17	12	29

C Construction

C.1 General

Propose any native seeding location changes to the Region Environmental Coordinator, who will review and approve any suggested changes prior to native seeding placement.

If the native seeding is not completed within the specified calendar window the department will assess daily damages in the amount of $1,000 per day. The department will assess these damages for each day the native seeding remains incomplete outside the specified calendar windows except when the department extends the required time period.

C.2 Seed Bed Inspection

The native seeding areas have been finished with topsoil and possibly sewn with a grass cover by others under a previous highway construction contract. Verify that the existing topsoil does or does not provide a suitable native seed planting bed that meets the following criteria: for the upper 2 inches of the topsoil, 100 percent of the material must pass a 1-inch sieve and at least 90 percent must pass the No. 10 sieve.

Visually inspect the proposed native seed area to verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, stones larger than 1 inch in diameter, loose erosion control matting, and/or any other construction refuse has been deposited within area(s) to be seeded.

Remove and dispose of any non-hazardous, unsuitable, or foreign materials from the seed bed and inform the Region Environmental Coordinator of any hazardous materials.

After seed bed inspection and at least one week prior to seeding, report the condition of the native seed area to the Region Environmental Coordinator. The Region Environmental Coordinator shall review the site by evaluating seed beds for proper weed control and site/soil condition prior to authorizing contractor to proceed with seeding. Additional seed bed preparation to work up the soil may be authorized by the Region Environmental Coordinator and will be paid for under the Seed Bed Preparation bid item.

C.3 Vegetation Eradication

Pre-planting herbicide treatment is described in the Pre-Planting Vegetation Treatment article.

If little or no perennial vegetation is present on the site, the Region Environmental Coordinator may approve a truncated site preparation process at his/her discretion.

The Region Environmental Coordinator shall have sole authority in determining when the seed bed has been properly prepared for seeding.

C.4 Seeding Methods and Timing

Three seeding methods are approved for sowing the Native Seed Mixtures. Adjust seeding method(s) for site conditions and seasonal installation. No later than 60 days prior to seeding submit the proposed seeding method and procedure, with any suggested changes, to the Region Environmental Coordinator for review.

1. No-till prairie seed drills.
2. Broadcast roller seeders.
3. Pull-behind broadcast seeders that can be calibrated to seed prairies at the appropriate low rates per acre.

No-till seed drills shall be set up to handle the flow characteristics and calibration requirements for the proper distribution of prairie flower and grass seeds. The seed bed must be graded to extremely smooth conditions for no-till drills to work properly, with the maximum variation in soil elevations of no more than one-half inch in height. The no-till seeder should be set so that the seed is placed only one-quarter inch deep in the soil. Any micro-variations in topography will result in the seed being planted either too deeply so that it will not germinate or is dropped onto the surface of the soil rather than being deposited into the soil itself.

Broadcast roller seeders require a freshly worked up seed bed in order to be effective. The soil must be loose, with maximum variation in soil elevation of no more than 4 inches in height prior to using a broadcast roller seeder.

Pull-behind broadcast seeders require a freshly worked up seed bed for success. The soil must be bare and loose, with a maximum variation in soil elevation of no more than 1 inch. The site must be dragged smooth and rolled with a cultipacker immediately following seeding.

Hydro-seeding is not an approved method for seeding native prairies and shall not be used for this purpose.

All native seeding will be fall dormant seeding, unless otherwise approved by the Region Environmental Coordinator. Sow seed between November 1 to the time when the soil is frozen. Planting may occur on partially frozen soil if the seed makes good contact with the soil at time of planting. The Region Environmental Coordinator must approve seeding on partially frozen soil.

C.5 Seeding Rates

Use the following sowing rate for native seeding: Native Seed Mixtures at 15.0 pounds/acre.

The entire native seeding area shall be seeded with the equipment set at one-half the designated rate. Then the entire site shall be seeded again with the remaining seed and with the equipment traveling in a direction perpendicular to the first seeding. On small areas the entire amount of seed may be sown in one direction at the discretion of the Region Environmental Coordinator.

C.6 Native Seeding Competency Test

Perform demonstration seeding, one per each seeding method, for differing site conditions, materials, and locations.

1. Notify Region Environmental Coordinator to determine dates for on-site review of seeding.
2. Supply all materials as needed for seeding.
3. Competency seeding test areas, approved by the Region Environmental Coordinator, will be retained as permanent installation, and used as a reference for approved installation standard.
4. Do not proceed with native seeding operations until the competency tests have been completed and approved.

C.7 Erosion Control

For seeding areas on bare soil, areas of existing water runoff, or where potential erosion may occur, cover the native seed with erosion control mat.

Place Erosion Mat Class I Type B Urban on native seeding areas only where directed by the engineer.

C.8 Seed Establishment Period

The work necessary during the establishment period is described in the Native Seeding Surveillance and Care Cycles article.

D Measurement

The department will measure Seeding Native Pollinator Mix (mixture) by the pound, acceptably completed.

E Payment

E.1 General

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0085.01	Seeding Native Pollinator Mix Upland	LB
SPV.0085.02	Seeding Native Pollinator Mix Swale	LB

Payment is full compensation for providing, inspecting, handling, and storing seed; for providing the required culture and inoculating seed as specified; for removing foreign and deleterious objects, construction materials, and stones from the seed bed, sowing, covering and firming the seed; and for all labor, tools, equipment, and incidentals necessary to complete the contract work.

Seed bed preparation that involves working up the topsoil will be paid for under the Seed Bed Preparation bid item.

Pre-planting herbicide treatment will be paid for under the Pre-Planting Vegetation Treatment bid item.

Erosion Control items shall be paid for, as necessary, under the respective standard bid items.

Follow-up care during the establishment period will be paid for under the Native Seed Surveillance and Care Cycles bid item.

E.2 Payment Schedule

The department will pay 80% of the contract value of the work each time an item or portion of an item is acceptably completed. Each time an item or portion of an item completes the growing season, including surveillance and care, and meets the native seed performance standards, the department will pay the final 20 percent of the contract value of this work.

The department will make final payments upon final acceptance and completion of all work required under the contract.

121. Compost Tubes, Item SPV.0090.01.

A Description

This special provision describes furnishing and installing compost tubes or wattles as shown on the plans or as directed by the engineer and as hereinafter provided. Compost tube shall consist of cylinders of biodegradable compost encased within biodegradable netting.

B Materials

Provide compost that:

1. Is a well-decomposed, stable, weed-free, organic, commercially manufactured material resulting from the biological degradation and transformation of plant or animal-derived materials under controlled conditions designed to promote aerobic decomposition.
2. Is mature with regard to its suitability for serving as an erosion control Best Management Practice (BMP) as defined in the table below.
3. Is stable with regard to oxygen consumption and carbon dioxide generation.
4. Does not contain paint, petroleum products, pesticides or any other chemical residues harmful to animal life or plant growth.
5. Does not possess objectionable odors.
6. Has a moisture content with no visible free water or dust produced when handling the material.

Compost feedstock may include, but is not limited to, yard waste, clean chipped wood, farm crop residue, farm animal manure, or vegetable food waste. Do not use materials that have been treated with chemical preservatives as a compost feedstock or as wood chips.

Test according to the United States Composting Council's “Test Methods for Examining of Composting and Compost (TMECC)”. Provide compost with the United States Composting Council's Seal of Testing Assurance Program (STA) certification and STA product label. The compost producer must be a participant in the United States Composting Council's Seal of Testing Assurance program.

Provide quality control documentation that includes the following:

1. The compost technical data sheet with the feedstock by percentage in the final compost product.
2. A certification that the compost meets federal and state health and safety regulations.
3. A copy of the producer's STA certification.
4. A certified report of tests performed by an STA-certified lab, verifying that the compost meets the requirements in the table below.

Compost must comply with the following:

PROPERTY	TEST METHOD	REQUIREMENT
Particle Size	*TMECC 02.02-B Sample Sieving for Aggregate Size Classification % Dry Weight Basis	100% Passing, 3-inch 90 – 100% Passing, 1 inch 70 – 100% Passing, ¾ in 30 – 75% Passing, ¼ inch Maximum length 6 inches
pH	TMECC 04.11-A Elastometric pH 1:5 Slurry Method pH Units	6.0 – 8.0
Soluble Salts	TMECC 04.10-A Electrical Conductivity 1:5 Slurry Method dS/m (mmhoscm)	Below 5.0
Moisture Content	TMECC 03.09-A Total Solids and Moisture at 70+/- 5 deg C % Wet Weight Basis	35 – 50
Organic Matter Content	TMECC 05.07-A Loss-On-Ignition Organic Matter Method (LOI) % Dry Weight Basis	Minimum 40% Max 60% ash content
Maturity	TMECC 05.05-A Germination and Vigor "Germination and Root Elongation" Seed Emergence Seedling Vigor % Relative to Positive Control	80 or Above
Physical Contaminants	TMECC 02.02-C Man Made Inert Removal and Classification: Plastic, Glass and Metal %>4mm fraction, dry mass (weight) basis	Less than 1%
Pathogens	Shall meet Class A requirements for pathogens as specified in NR 204.07(6)(a)	Pass
Chemical Contaminants	Shall meet pollutant concentrations as specified in NR 204.07(5)(c)	Pass
Carbon to Nitrogen Ratio	C:N	10:1 – 20:1

*TMECC refers to "Test Methods for the Examination of Composting and Compost," published by the United States Department of Agriculture and the United States Compost Council (USCC).

Immediately remove from the project, compost not conforming to the above requirements or taken from a source other than those tested and replace the compost at no cost to the department.

The engineer reserves the right to sample compost at the jobsite.

Compost tube shall be a minimum of 5 inches in diameter. Netting material shall be clean, evenly woven, and free of encrusted concrete or other contaminating materials such as preservatives. Netting material shall be free from cuts, tears, or weak places and shall have a minimum lifespan of 6 months and a maximum lifespan of not more than 24 months.

Wood stakes used in securing Compost Tube shall be made from untreated Douglas fir, hemlock, or pine species. Wood stakes shall be 2-inch by 2-inch nominal dimension and 36 inches in length. Install/locate wood stakes per manufacturer’s recommendations.

C Construction

Compost tube shall be installed as soon as construction will allow or when designated by the engineer. Compost tube installation and trenching shall begin from the base of the slope and work uphill prior to any topsoil or compost placement. Trenches shall, at all times, be perpendicular to the direction of flow down the slope. Excavated material from trenching shall be spread evenly along the uphill slope and be compacted using hand tamping or other method approved by the engineer. On gradually sloped or clay-type soils trenches shall be 2 to 3 inches deep. On loose soils or on steep slopes, trenches shall be 3 to 5 inches deep, or half the thickness of the Compost tube, whichever is greater.

The contractor shall exercise care when installing wattles to ensure the method of installation minimizes the disturbance of waterways and prevents sediment or pollutant discharge into water bodies.

C.1 Maintenance

Maintain Compost tube until the project has been completed or directed otherwise. Routinely inspect Compost tube for any material dislodgement. Replace and redress any dislodged material.

D Measurement

The department will measure Compost Tubes by the linear foot of tube, acceptably installed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Compost Tubes	LF

Payment is full compensation for furnishing and installing Compost Tube as shown in the plans or as directed by the engineer; including the required trenching and subsequent spreading of trenched material after the embankment is stabilized; and the furnishing and installing of wood stakes to secure Compost Tube.

122. Sign Posts, Item SPV.0090.02.

A Description

This special provision describes furnishing and installing new sign posts for signs. All sign posts shall be round tubular steel and installed as shown in the plans.

B Materials

All materials shall conform to the standard specifications for hot rolled carbon sheet steel, commercial quality, ASTM A-570-GR-33 for zinc coated tubing to resist corrosion. The tube shall be 2-inch, Schedule-40 at the length shown on the plans, with threading on the bottom end, as detailed in the plans, and a watertight end cap on the top end.

C Construction

Install the signposts at the locations shown on the plans and approved by the engineer. If the finished grade cannot be determined, ask the engineer to identify the final grade. Install all signs in a true vertical position conforming to conform to the latest edition of the Manual on Uniform Traffic Control Devices. Band signs to the sign posts according to the details in the plans. Also, locate all underground utilities prior to placing sign posts. Cut off excess length of post in the field to provide the desired sign clearance

D Measurement

The department will measure Sign Posts by the linear foot of above-ground length, 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	Sign Posts	LF

Payment is full compensation for furnishing, hauling, and installing the posts; threading; treating cut post ends; providing and installing a watertight top end cap; providing hardware and anchors; and for reflective sheeting. Replace all materials damaged during construction with new items at no cost to the department.

123. Temporary Rumble Strip (Orange) in Advance of Lane Closure, Item SPV.0090.03.

A Description

This special provision describes providing, maintaining and removing temporary rumble strips (orange) in advance of lane closure.

B Materials

Provide temporary rumble strips according to the following:

Composition:	Polymer with pre-applied adhesive
Color:	Orange
Tensile Strength:	250 psi
Cross-Section:	0.25 inch thick by 4 inches wide

Provide primer according to the manufacturer's recommendation.

C Construction

C.1 Placement

Do not apply the rumble strips unless the pavement surface temperature is 40 degrees F and rising, and dry. Do not use artificial heat. Clean all foreign and contaminating material from the surface of the pavement prior to application of the rumble strips.

Place 3 arrays of 9 rumble strips in advance of the lane closure across both lanes of the roadway. Ensure that the rumble strips cover the entire width of the roadway from outside shoulder edge line to inside shoulder edge line.

Place the temporary rumble strips as follows:

Apply one set of 9 rumble strips, each spaced 1.5 feet apart from edge to edge, placed approximately 750 feet upstream of the beginning of the taper.

Apply one set of 9 rumble strips, each spaced 5 feet apart from edge to edge, placed approximately 1,975 feet upstream of the beginning of the taper.

Apply one set of 9 rumble strips, each spaced 10 feet apart from edge to edge, placed approximately 3,000 feet upstream of the beginning of the taper.

Apply the primer to the surface of the pavement only if recommended by the manufacturer. Place the pre-adhesive surface of the rumble strip on the primer or directly on the pavement surface, as recommended by the manufacturer. Seat the rumble strips with a minimum of three passes of a 200 pound weighted roller.

C.2 Maintenance

If the temporary rumble strips lose their adhesion to the pavement during Stage 2, replace or re-adhere them, as directed by the engineer.

Upon completion of the project, or as directed by the engineer, entirely remove temporary rumble strips according to standard specification 646.3.1.4.

D Measurement

The department will measure Temporary Rumble Strip (Orange) in Advance of Lane Closure by the linear foot measured laterally across the roadway, 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	Temporary Rumble Strip (Orange) in Advance of Lane Closure	LF

Payment is full compensation for providing, maintaining and removing Temporary Rumble Strips (Orange) in Advance of Lane Closure.

124. Sanitary Sewer Pipe SDR 26 8-Inch, Item SPV.0090.40; Sanitary Sewer Pipe SDR 26 15-Inch, Item SPV.0090.41; Sanitary Sewer Pipe SDR 35 8-Inch, Item SPV.0090.46; Sanitary Sewer Pipe SDR 35 15-Inch, Item SPV.0090.47.

A Description

This special provision describes installing Sanitary Sewer Pipe (Type/Size) at the alignment and grades shown on the plan. All sections of the sewer mainline are required to pass a low pressure air test, mandrel test, and a visual inspection via televising as specified in Article 501.3(b) of the City Standard Specifications. Testing of the gravity main is included in this item.

Maintain the normal flow of wastewater at all times during replacement of the existing sanitary sewer main with the new sanitary sewer main. Payment for furnishing all bypass pumping, temporary piping, and/or temporary connections, which are required to maintain the normal flow of wastewater throughout the sewer construction, is under the bid item for Wastewater Control.

B Materials

Provide solid-wall Poly (Vinyl Chloride) (PVC) sanitary sewer pipe and fittings meeting the requirements for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings, ASTM D 3034.

Provide pipe and fittings having a standard dimension ratio of 26 or 35 as called out on the plan set. Furnish elastomeric or solvent cement joints as recommended by the manufacturer.

The assembled joint will be required to pass the performance tests as required in ASTM D3212. Sewer mains deeper than 12 feet will be required to meet the standards or ASTM D3034 SDR-26.

C Construction

Install the sanitary sewer pipe according to all applicable provisions of the City Standard Specifications.

Remove all abandoned or existing material located within 3 feet of the new sanitary sewer alignment. Removal of material (including existing sanitary sewer/water main/etc.) is incidental to this bid item.

Use manufactured wye fittings to install new laterals to the new main as called for on the plans; provide and place according to standard spec 503 for City Standard Specifications. Do not install saddle type wyes without prior approval from the City of Madison.

Complete testing and televising of new sewer lines according to Article 501 of the City Standard Specifications.

D Measurement

The department will measure Sanitary Sewer Pipe (Type/Size) in length by the linear foot, acceptably completed.

Sanitary Sewer Pipe (Type/Size) will be measured through sanitary sewer structures, from the center of sanitary sewer casting to center of sanitary sewer casting. Sanitary Sewer Pipe (Type/Size) not terminating at a sanitary sewer structure will be measured to the end of pipe. Deductions from the measure length will not be made for wye installations.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.40	Sanitary Sewer Pipe SDR 26 8-Inch	LF
SPV.0090.41	Sanitary Sewer Pipe SDR 2615-Inch	LF
SPV.0090.46	Sanitary Sewer Pipe SDR 35 8-Inch	LF
SPV.0090.47	Sanitary Sewer Pipe SDR 35 15-Inch	LF

Payment is full compensation for excavation of the trench, except tunneling and jacking; installation and removal of sheeting and bracing; disposal of surplus material from the trench; embankment over the sewer using surplus material from the excavation of the trench; bedding the pipe; laying the pipe and installing the fittings and accessories; jointing and sealing of joints in pipe, fittings and accessories; encasement, where specified; connections to existing structures; cleaning out the sewer; and restoring the site.

125. Select Fill for Sanitary Sewer, Item SPV.0090.42.

A Description

This special provision describes furnishing and placing select fill over the sanitary sewer main and laterals along the entire length of the pipe.

B Materials

Provide select fill meeting the requirements of Article 202.2(b) of the City Standard Specifications for select fill for sanitary sewer mains and laterals.

C Construction

Install select fill for sanitary sewer according to all applicable provisions of Article 502.1(e) of the City Standard Specifications.

D Measurement

The department will measure Select Fill for Sanitary Sewer in length by the linear foot, acceptably completed. Measurement will be completed along the centerline of the installed sanitary sewer pipe and includes the length through Sewer Access Structures.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.42	Select Fill for Sanitary Sewer	LF

Payment is full compensation for furnishing, hauling, placing, and compacting select fill for sanitary sewer.

126. Sanitary Sewer Pipe PVC 10-Inch with Casing, Item SPV.0090.43; Sanitary Sewer Pipe PVC 15-Inch with Casing, Item SPV.0090.44.

A Description

This special provision describes installing sanitary sewer main on engineered spacers within steel casing pipes by trenchless bore and jack method or open cut trench installation.

B Materials

Provide all materials necessary to install sanitary sewer within steel casing pipes. Provide steel casing pipe, sized to provide a minimum of 30-inch diameter casing for a 10-inch sanitary sewer pipe and 36-inch diameter casing for a 15-inch sanitary sewer pipe. Provide steel casing pipe adequately sized to allow for proper and complete installation of the carrier pipe to the elevations and slopes shown in the drawings. Oversizing of the casing pipe to allow for installation is at the discretion of the contractor and is included in this item.

Provide steel casing pipes meeting the following standards:

- ASTM specification A139 Grade B or AWWA specification C200.
- Outside diameter as specified by the contractor.
- Not coated or cathodically protected, no hydrostatic testing required.
- 0.50” minimum thickness for 10-inch diameter sewer (30-inch casing) and 0.5625” minimum for the 15-inch diameter sewer (36-inch casing).
- Specified minimum yield strength, SMYS, of at least 35,000 psi.
- New and unused pipe.
- Straight and round pipe.
- Beveled ends for butt welding.

Provide sanitary sewer carrier pipes meeting the requirements of Sanitary Sewer Pipe PVC 10-inch and 15-inch. Provide sand or limestone screenings conforming to Article 502.1 (d) of the City of Madison Standard Specification for Public Works Construction - Latest Edition.

C Construction

Submit the following documents to the City of Madison for approval prior to ordering of materials and the start of construction:

- Certificate of compliance for the steel casing pipe.
- Pipe loading calculations for steel casing pipe.
- Sieve analysis and material specification for sand or limestone screenings for filling of annular space between carrier pipe and casing pipe.
- Sieve analysis and material specification for casing spacers.
- Casing spacer design and layout plan.
- Boring and receiving. pits excavation and soil retention design and plan.
- Site security plan.
- Material data and design mix and methods for bulkheading the casing ends.
- Materials for casing spacers and distances between spacers.
- Design and mix for cementious grout and installation plan for filling voids between casing pipe and surrounding soil.

Excavate the boring and receiving pits according to Article 201.2 of the City of Madison Standard Specifications for Public Works Construction-Latest Edition.

Complete trenchless construction via dry auger boring and jacking. Water jacking for excavation of the soil is not allowed. The use of water to facilitate removal of spoil is permitted. At a minimum, extend trenchless construction to limits shown on the drawings. Trenchless limits may be extended at the contractor's discretion, and as approved by the city of Madison.

For casing pipe installation, excavate the bore hole to match the outside diameter of the casing pipe. In soft, unstable soil, maintain auger within the casing pipe and do not extend auger past the end of the casing to minimize creation of a void between the casing and surrounding soil. Fill any voids between casing pipe and surrounding soil with cementious grout installed under pressure.

Connect adjacent lengths of steel casing pipe by continuous, circumferential, field butt welding according to AWWA C206. Provide connections that are straight and true, and watertight in the existing groundwater conditions.

Contractor will be allowed to use would blocking and/or pipe spaces to suspend the pipe in casing pipe to obtain the proper design slope. Both will be considered acceptable installation methods. The design slope will be verified by a city surveyor and if the slope is back-pitched or nor at an acceptable slope, the Construction Engineer will require the pipe be adjusted.

Blocking Method

Prior to installing pipe in the casing, a set of four wood blocks shall be strapped to both ends of the pipe 5 feet from each end. The blocks shall be set so that the pipe does not touch the casing. Pipe joints shall be made outside of the casing. Sand or Pea gravel shall be washed or blown into the casing to the spring line of the pipe to provide bedding under the pipe.

Pipe Spacers Method

Non-Centered stainless steel spacers (PSI S8GN-2 http://www.pipelineseal.com/pdf_lit/csem&bg.pdf or approved equivalent) shall be installed in the casing pipe at varying to the new sewer main to set the sewer main to the desired slope. Spacers shall be installed according to the manufacturer's specifications with maximum spacing of 8'

Provide and install non-centered stainless steel pipe spacers in the casing pipe at regular intervals to the new sanitary sewer main joints to set the sewer main to the elevations and slopes shown on the plans. Install pipe spacers as recommended by the manufacturer, with a maximum spacing of 8 feet.

Install carrier pipe inside of the casing pipe to line and grade shown in the drawings. Install approved casing spacers at the approved distances. Fill the annular space between the casing pipe and carrier pipe with the approved material (sand or pea gravel).

Contractor is solely responsible for any damage created by thrust and lateral earth pressures created by the installation process. Protect existing utilities in or around the boring and receiving pit areas.

D Measurement

The department will measure Sanitary Sewer Pipe PVC (Size) with Casing in length, by the linear foot, acceptably completed. Measurement will be made on a straight line from one end of the steel casing pipe to the other, measured at the invert.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.43	Sanitary Sewer Pipe PVC 10-Inch with Casing	LF
SPV.0090.44	Sanitary Sewer Pipe PVC 15-Inch with Casing	LF

Payment is full compensation for furnishing all materials necessary to perform the work; excavation; site security; for installation of the steel casing pipe, installation of the carrier pipe inside of the casing pipe with casing spacers as described, and filling of annular space between carrier pipe and casing pipe; for disposal of excess materials, and restoration of the site; and for protection or replacement of existing structures and utilities. The cost of the carrier pipe shall be included in this item.

127. Utility Trench Patch Type III, SPV.0090.45.

A Description

The work under this item will meet the requirements of Article 502 and Standard Detail Drawing 5.2.4 of the City of Madison Standard Specifications for Public Works Construction for Type III Utility Trench Patch.

B Materials

The new crushed stone will meet the requirements of the City of Madison Standard Specifications for Public Works Construction - Article 401-Crushed Aggregate Base Course, for Gradation No. 2 Base course.

C Construction

Utility Trench patch will be installed according to all applicable provisions of Article 502.1(f) and SDD 5.2.4 of the City of Madison Standard Specifications for Public Works Construction for Type III Utility Trench Patch.

D Measurement

The department will measure Utility Trench Patch Type III by the linear foot, measured longitudinally along the centerline of the patch regardless of the type of patch, 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.0090.45	Utility Trench Patch Type III	LF

Payment is full compensation for furnishing, placing, consolidating and compacting the materials used to restore the pavement, including asphalt and/or concrete and all other work incidental to the installation of utility trench patches. Payment will not include the Select Fill material required to backfill the trench.

128. Water Main 6-Inch, Item SPV.0090.50; Water Main 8-Inch, Item SPV.0090.51; Water Main 12-Inch, Item SPV.0090.52.

A Description

Furnish, install and test new water main and fittings. Work for this item also includes:

1. Thrust restraints.
2. Temporary flushing devices (blow-offs and/or temporary hydrants).
3. Polyethylene encasement.

4. Temporarily raising or lowering existing water services.
5. Exposing existing water main to verify location and depth.
6. Placing imported select fill in trench excavations.
7. Disposal of excess excavated material.
8. Concrete and asphalt pavement removal.
9. Restoring the site.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

1. All materials necessary to perform the work, including:
    1) Pipe and accessories.
    2) Fittings and accessories.
    3) Sleeves, clamps, tie rods, plugs.
    4) Thrust blocking and/or restrained-joint gaskets.
    5) Polyethylene encasement.
    6) Bedding material to cover the pipe.
2. Temporary blow-off devices:
    1) Temporary 2-inch diameter flushing/blow-off devices will be permitted on 8-inch or smaller mains provided they are assembled according to SDD 7.07 – 2-IN TEMPORARY FLUSHING / BLOW-OFF FOR 8-IN PIPE AND SMALLER of the City Standard Specifications.
    2) Plastic tubing or other flexible tubing materials are not permitted.
    3) Terminate blow-off device at least 2 to 4 feet above ground with a ball valve and a 2½-inch brass NST fire hose.

C Construction

Refer to Article 703 of the City Standard Specifications and this section.

1. Pipe Laying and Bedding:
    1) Lay pipes with a minimum of 6 feet and a maximum of 7 feet of cover from final grade, unless otherwise depicted on the Construction Drawings or required by the engineer.
    2) For line or grade adjustments of 24 inches or less, use offsets in lieu of bend fittings.
    3) Inspect all pipe and fittings for damage and cleanliness prior to lowering into the trench. Any costs due to the repair of damaged valves and hydrants caused by sand or silt in the pipe will be assessed.
    4) Never roll or push the pipe into the trench from the bank. Always lower the pipe into the trench using mechanical equipment.
    5) Do not place chlorine in a pipe during installation that will not be filled and flushed within 45 days of installation.
    6) Restore any disturbed turf areas associated with any water main or service lateral installation located in roadway terraces. The restoration is considered incidental to the service lateral work.
2. Slip Joints:
    1) A slip joint is made by compressing a rubber gasket between a bell cast in the end of one pipe and the plain end of the pipe to be joined.

2) Assemble according to AWWA C600 - latest revision, including:

i. Thoroughly clean the groove and the bell socket of the pipe or fitting, and the plain end of the mating pipe.

ii. Using a clean gasket of the proper design for the joint to be assembled, make a small loop in the gasket and insert it in the socket, making sure the gasket faces the correct direction and that it is properly seated.

iii. Apply lubricant to the gasket and plain end of the pipe according to ANSI/AWWA C111/A21.11 - latest revision. Only use lubricant supplied by the pipe manufacturer.

iv. Be sure that the plain end of the pipe is beveled, as square or sharp edges may damage or dislodge the gasket and cause a leak.

v. Push the plain end into the bell of the pipe, keeping the joint straight while pushing.

vi. Deflect the pipe as required only after the joint is assembled. Establish conductivity across the joint according to methods permitted in Section 702.1.2 (2) – 'Ductile Iron Pipe – Pipe Requirements.' of the City Standard Specifications.

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.0090.50	Water Main 6-Inch	LF
SPV.0090.51	Water Main 8-Inch	LF
SPV.0090.52	Water Main 12-Inch	LF

Payment is full compensation for furnishing and installing all materials, including water main, fittings, joint restraint, tracer wire, granular bedding and backfill, and miscellaneous materials which may be necessary to perform the installation; for testing; and for all excavating and backfilling.

Additional Fittings, where authorized, are to be paid or credited as follows:

DESCRIPTION	UNIT	PRICE
6-Inch Fitting	Each	$705.00
8-Inch Fitting	Each	$950.00
12-Inch Fitting	Each	$1,200.00

1. Total fitting quantity to be balanced out by any fittings identified on the plan set to be furnished and installed, but that were not furnished and installed.
2. Additional bend fittings: Paid as diameter value, credited as 1 fitting.
3. Additional reducer fittings: Paid as average value between the 2 diameters, credited as 1 fitting.
4. Additional tee fittings: Paid as run diameter value plus half of the branch diameter value. Credited as 1.5 fittings.
5. Additional cross fittings: Paid as diameter 1 value plus diameter 2 value, credited as 2 fittings.
6. Additional offset fittings: Paid as 1.5 times diameter value, credited as 1.5 fittings.
7. Additional solid sleeve, cap or plug fittings: Paid as 0.25 diameter value, credited as 0.25 fittings.

129. Casing Pipe 24-Inch, Item SPV.0090.53.

A Description

Install reinforced concrete casing pipes for water mains.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

1. Reinforced Concrete Pipe:
    1) Class V minimum.
2. Casing fill:
    1) Silica sand or pea gravel.
3. Casing Spacers:
    1) Manufactured casing spacers shall include stainless steel risers, nuts, bolts and bands, minimum 8-inch width, and polymer runners. Acceptable products include:
    2) BWM Company Stainless Steel Casing Spacers, model: BWM-SS 8-inch width.
    3) CCI Pipeline Systems Stainless Steel Band Casing Spacer, model: CSS8.
    4) Advance Products & Systems Stainless Steel Band Spacers, model: SSI, 8-inch width.

C Construction

Prior to installation of the pipe casing, perform required ULOs to verify the location of surrounding utilities and structures. Provide utility location information to the engineer for review and approval of any adjustments in casing installation line or grade, in writing.

1. Install per the approved drawings to an accuracy of +/- 1% or +/- 2 feet, whichever is less.
2. Install the pipe casing by traditional open-trench construction.
3. Connect adjacent lengths of steel pipe by continuous, circumferential, field butt-welding according to AWWA C206.
4. Install carrier pipe on line and grade through the casing pipe.
5. Install approved casing spacers at the required distances per Standard Detail Drawing 7.21 – 'Casing Spacers,' of the City Standard Specifications and according to the manufacturer's installation requirements.
6. Fill the annular space between the casing and carrier pipe with specified sand or gravel material.
7. Apply approved end-seals to the casing ends.
8. Properly dispose of excess material off-site.

D Measurement

The department will measure Casing Pipe 24-Inch 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.0090.53	Casing Pipe 24-Inch	LF

Payment is full compensation for furnishing and installing all materials, including casing pipe, spacers, tracer wire, granular bedding and backfill, and miscellaneous materials which may be necessary to perform the installation; for testing; and for all excavating and backfilling.

130. Wall Concrete Panel Mechanically Stabilized Earth R-13-0370, Item SPV.0165.01; Wall Concrete Panel Mechanically Stabilized Earth R-13-0371, Item SPV.0165.02.

A Description

This special provision describes designing, furnishing materials and erecting a permanent earth retention system according to the lines, dimension, elevations and details as shown on the plans and provided in the contract. The design life of the wall and all wall components shall be 75 years minimum.

This special provision describes the quality management program (QMP) for Mechanically Stabilized Earth (MSE) walls. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process that are related to the construction of the MSE wall, which meets all the requirements of this provision.

This special provision describes contractor quality control (QC) sampling and testing for backfill density testing, documenting those results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.

Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes sampling and testing procedures.

B Materials

B.1 Proprietary Wall Systems

The supplied wall system must be from the department's approved list of Concrete Panel Mechanically Stabilized Earth Wall systems. Proprietary wall systems must conform to the requirements of this specification and be pre-approved for use by the department's Bureau of Structures. The department maintains a list of pre-approved proprietary wall systems. The name of the pre-approved proprietary wall system selected shall be furnished to the engineer within 25 days after the award of contract.

To be eligible for use on this project, a system must have been pre-approved by the Bureau of Structures and added to that list prior to the bid opening date. To receive pre-approval, the retaining wall system must comply with all pertinent requirements of this provision and be prepared according to the requirements of Chapter 14 of the department's LRFD Bridge Manual. Information and assistance with the pre-approval process can be obtained by contacting the Bureau of Structures, Structures Maintenance Section at the following email address: DOTDLStructuresFabrication@dot.wi.gov.

B.2 Design Requirements

It is the responsibility of the contractor to submit a design and supporting documentation as required by this special provision, for review and acceptance by the department, to show the proposed wall design is in compliance with the design specifications. The submittal shall include the following items for review: detailed plans and shop drawings, complete design calculations, explanatory notes, supporting materials, and specifications. The detailed plans and shop drawings shall include all details, dimensions, quantities and cross-sections necessary to construct the walls. Submit shop drawings to the engineer conforming to 105.2 with electronic submittal to the fabrication library under 105.2.2. Certify that shop drawings conform to quality control standards by submitting department form DT2329 with each set of shop drawings. Department review does not relieve the contractor from responsibility for errors or omissions on shop drawings. Submit no later than 60 days from the date of notification to proceed with the project and a minimum of 30 days prior to the date proposed to begin wall construction.

The plans and shop drawings shall be prepared on reproducible sheets 11 inch x 17 inch, including borders. Each sheet shall have a title block in the lower right corner. The title block shall include the WisDOT project identification number and structure number. Design calculations and notes shall be on 8½-inch x 11-inch sheets, and shall contain the project identification number, name or designation of the wall, date of preparation, initials of designer and checker, and page number at the top of the page. All plans, shop drawings, and calculations shall be signed, sealed and dated by a professional engineer licensed in the State of Wisconsin.

The design of the wall shall be in compliance with the current American Association of State Highway and Transportation Officials LRFD (AASHTO LRFD) Bridge Design Specifications with latest interim specifications for Mechanically Stabilized Earth Walls, WisDOT's current Standard Specifications for Highway and Structure Construction (standard spec), Chapter 14 of the WisDOT LRFD Bridge Manual and standard engineering design procedures as determined by the department. Loads, load combinations, load and resistance factors shall be as specified in AASHTO LRFD Section 11. The associated resistance factors shall be defined according to Table 11.5.7-1 in AASHTO LRFD.

Design and construct the walls according to the lines, grades, heights and dimensions shown on the plans, as herein specified, and as directed by the engineer. Where walls or wall sections intersect with an included angle of 130 degrees or less, a vertical corner element separate from the standard panel face shall abut and interact with the opposing standard panels. The corner element shall have ground reinforcement connected specifically to that panel and shall be designed to preclude lateral spread of the intersecting panels. If the wall is installed in front of a bridge abutment or wing, it shall also be designed to resist the applied abutment/bridge lateral forces specified on the plans.

Walls parallel to supporting highway traffic shall be designed for the effects of highway surcharge loading equivalent of 2 feet soil surcharge weight or 240 psf. The design shall also consider the traffic barrier impact where applicable. Walls that do not carry highway traffic shall be designed for a live load surcharge of 100 psf according to Chapter 14 of the WisDOT LRFD Bridge Manual or as stated on the plans.

A maximum value of the angle of internal friction of the wall backfill material used for design shall be assumed to be 30 degrees without a certified report of tests. If a certified report of tests yields an angle of internal friction greater than 30 degrees, the larger test value may be used for design, up to a maximum value of 36 degrees.

An external stability check at critical wall stations showing Capacity Demand Ratios (CDR) for sliding, eccentricity, and bearing checks is performed by the department and are provided on the wall plans.

The design of the wall by the contractor shall consider the internal and compound stability of the wall mass according to AASHTO LRFD 11.10.6. The internal stability shall include soil reinforcement pullout, soil reinforcement rupture, and panel-reinforcement connection failure at each soil reinforcement level. The design shall be performed using the Simplified Method or Coherent Gravity Method. Calculations for factored stresses and resistances shall be based upon assumed conditions at the end of the design life. Compound stability shall be computed for the applicable strength limits. Sample analyses and hand calculations shall be submitted to verify the output of any software program used. The design calculations and notes shall clearly indicate the Capacity to Demand Ratios (CDR) for all internal and external stabilities as defined in AASHTO LRFD.

The wall facing shall be designed according to AASHTO LRFD 11.10.2.3. The facing panels shall also be designed to resist compaction stresses that occur during the wall erection. The minimum thickness of the facing panel shall be 5.5 inches. The surface area of a standard single panel cannot exceed 60 square feet. The maximum height of a standard panel shall be 5 feet. The top and bottom panels may exceed 5 foot in height based on site topography subject to the approval by the Structures Design Section. The design of the steel reinforcement within the panels shall be based on one-way bending action. Design the wall panels and joints between panels to accommodate a maximum differential settlement of 1 foot over a 100-foot length, unless the plans indicate other.

The minimum length of soil reinforcement measured from the back face of the wall shall be equal to 0.7 of the wall height, or as shown on the plan. In no case shall this length be less than 8 feet. The soil reinforcement length shall be the same from the bottom to the top of the wall. All soil reinforcement layers shall be connected to facings. The soil reinforcement shall extend a minimum of 3.0 feet beyond the theoretical failure plane in all cases. The maximum vertical spacing of soil reinforcement layers shall be 31 inches. The uppermost layer of the reinforcement shall be located between 6 inches and 18 inches below the bottom of an overlying slab, footing or top of the wall. The upper layers of the soil reinforcement shall also be checked to verify that they have sufficient tensile resistance against traffic barrier impact where applicable.

All soil reinforcement required for the reinforced soil zone shall be connected to the face panels. The reinforcement and the reinforcement/facing connection strength shall be designed to resist maximum factored reinforcement loads according to AASHTO LRFD Section 11.10.6. Facing connection strength shall be defined as the resistance factor times the failure load, or the load at 0.5 inch deformation times 0.9, whichever is less. The nominal long term design strength in steel reinforcement and connections shall be based upon assumed conditions at the end of the design life.

Soil reinforcement shall be prefabricated into single or multiple elements before galvanizing. Soil reinforcement shall be fabricated or designed to avoid piling, drainage structures or other obstacles in the fill without field modifications. Unless approved by the Bureau of Structures cutting or altering of the basic structural section of either the strip or grid at the site is prohibited, a minimum clearance of 3” shall be maintained between any obstruction and reinforcement, and splicing reinforcement is not allowed.

The minimum embedment of the wall shall be 1 foot 6 inches below finished grade, or as given on the plans. All walls shall be provided with a concrete leveling pad. Minimum wall embedment does not include the leveling pad depth. Step the leveling pad to follow the general slope of the ground line. Frost depth shall not be considered in designing the wall for depth of leveling pad.

Wall facing units shall be installed on a leveling pad.

B.3 Wall System Components

Materials furnished for wall system components under this contract shall conform to the requirements of this specification. All documentation related to material and components of the wall systems specified in this subsection shall be submitted to the engineer.

B.3.1 Wall Facing

Wall facing shall consist of modular precast concrete face panels produced by a wet cast process. The concrete panels shall have a minimum strength of 4,000 psi at 28 days. The concrete for the panels shall be air entrained, with an air content of 6% +/- 1.5%. All materials for the concrete mixture for the panels shall meet the requirements of standard spec 501. The panel edges shall be configured so as to conceal the joints. The detail shall be a shiplap, tongue and groove or other detail adequate to prevent vandalism or ultraviolet light damage to the backside of the wall joint covering. Joints between panels shall be no more than 0.75 inch. Use full wall height slip joints at points of differential settlement when detailed on the plan. Horizontal joints must be provided with a compressible bearing material to prevent concrete to concrete contact. Panels shall be reinforced using coated high-strength bar steel or welded steel wire fabric conforming to standard spec 505. Welded steel wire fabric shall be epoxy-coated according to ASTM A884 or galvanized according to AASHTO M 111 or ASTM A641. Panel dowels for cast-in-place copings shall be coated high-strength bar steel conforming to standard spec 505. Unless approved by the Bureau of Structures, adhesive anchors are prohibited.

For reinforced cast-in-place concrete cap or coping, use poured Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for cast-in-place cap and coping concrete as specified in standard spec 716, Class II Concrete. Use coated high-strength bar steel conforming to standard spec 505.

A minimum of two bearing pads shall be used per panel. The allowable bearing stress shall not exceed 900 psi. The bearing pads shall be preformed EPDM rubber conforming to ASTM D2000, Grade 2, Type A, Class A with a minimum Durometer Hardness of 80, or high- density polyethylene pads with a minimum density of 0.034 lb/in^3 according to ASTM D1505.

An 18-inch wide geotextile shall be used on the backface of the wall panels to cover all panel joints. The geotextile shall meet the physical requirements stated in standard spec 645.2.4 for Geotextile, Type DF, Schedule B, except that the grab tensile strength shall be a minimum of 180 pounds in both the machine and cross-machine directions. The geotextile shall be attached with a standard construction adhesive suitable for use on concrete surfaces and cold temperatures. The adhesive shall be applied to the panels, not to the geotextile.

B.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad. Use Grade A concrete conforming to standard spec 501 as modified in standard spec 716. Provide QMP for leveling pad concrete as specified in standard spec 716, Class III Concrete.

The minimum width of the leveling pad shall be 12 inches. The minimum thickness of the leveling pad shall be 6 inches.

B.3.3 Backfill

Furnish and place backfill for the wall as shown on the plans and as hereinafter provided.

Place backfill in a zone extending horizontally from the back face of the wall facing to 1 foot minimum beyond the end of the reinforcement and extending vertically from the top of the leveling pad to a minimum of 3 inches above the final reinforcement layer.

Use natural sand or a mixture of sand with gravel, crushed gravel or crushed stone. Do not use foundry sand, bottom ash, blast furnace slag, crushed/recycled concrete, crushed/milled asphaltic concrete or other potentially corrosive material.

Provide material conforming to the following gradation requirements as per AASHTO T27.

Sieve Size	% by Weight Passing
1 inch	100
No. 40	0 - 60
No. 200	0 - 15

The material shall have a liquid limit not greater than 25, as per AASHTO T89, and a plasticity index not greater than 6, as per AASHTO T90. Provide the percent by weight, passing the #4 sieve.

In addition, backfill material shall meet the following requirements.

Test	Method	Value	
		(Galvanized)	(Aluminized Type 2)
pH	AASHTO T-289	5.0 – 10.0	5.0 – 9.0
Sulfate content	AASHTO T-290	200 ppm max	
Chloride content	AASHTO T-291	100 ppm max	
Electrical Resistivity	AASHTO T-288	3,000 ohm-cm min	1500 ohm-cm min
Organic Content	AASHTO T-267	1.0% max.	
Angle of Internal Friction	AASHTO T-236[1]	30 degrees min. (At 95.0% of maximum density and optimum moisture, per AASHTO T99, or as modified by C.2.)	

[1] If the amount of P-4 material is greater than 60%, use AASHTO 236 with a standard-size shear box. Test results of this method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

If the amount of P-4 material is less than or equal to 60%, two options are available to determine the angle of internal friction. The first method is to perform a fractured faces count, per ASTM D5821, on the R-4 material. If more than 90% of the material is fractured on one face and more than 50% is fractured on two faces, the material meets the specifications, and the angle of internal friction can be assumed to be 30 degrees. The second method allows testing all P-1" material, as per AASHTO T-236, with a large shear box. Test results of this second method may allow the use of larger angles of internal friction, up to the maximum allowed by this specification.

Prior to placement of the backfill, obtain and furnish to the engineer a certified report of test results that the backfill material complies with the requirements of this specification. Specify the method used to determine the angle of internal friction. This certified report of test shall be less than 6 months old. Tests will be performed by a certified independent laboratory. In addition, when backfill characteristics and/or sources change, provide a certified report of tests for the new backfill material. Additional certified report of tests are also required. These additional backfill tests may be completed at the time of material production or material placement, with concurrence of the engineer. If this additional testing is completed at the time of material production, complete testing for every 2,000 cubic yards of backfill or portion thereof. If this additional testing is completed at the time of material placement, complete testing for every 2,000 cubic yards of backfill, or portion thereof, used per wall. For the additional required testing for every 2,000 cubic yards of backfill placement, if the characteristic of the backfill and/or the source has not changed then Angle of Internal Friction tests are not included in the additional required testing. All certified reports of test results shall be less than 6 months old and performed by a certified independent laboratory.

B.3.4 Soil Reinforcement

All steel portions of the wall system exposed to earth shall be galvanized. All soil reinforcement and attachment devices shall be carefully inspected to ensure they are true size and free from defects that may impair the strength and durability. Soil reinforcement shall be galvanized or aluminized Type 2. Galvanized soil reinforcement shall be according to AASHTO M 111 or ASTM A641. Aluminized soil reinforcement shall be according to ASTM A463 Aluminized Type 2-100, SS, Grade 50, Class 2. Design of galvanized soil reinforcement shall be according to Section 11.10.6.4.2 of the current AASHTO LRFD Specifications. The design life of steel soil reinforcements shall comply with AASHTO LRFD. Aluminized soil reinforcement shall be limited 16 years of steel protection. Aluminized steel shall only be used on soil reinforcement elements and shall not be used on facing connections or any other steel portion of the wall system. Steel soil reinforcement shall be prefabricated into single or multiple elements before galvanizing.

C Construction

C.1 Excavation and Backfill

Excavation and preparation of the foundation for the MSE wall and the leveling pad shall be according to standard spec 206. The volume of excavation covered is limited to the width of the reinforced mass and to the depth of the leveling pad unless shown or noted otherwise on the plan. At the end of each working day, provide good temporary drainage such that the backfill shall not become contaminated with run-off soil or water if it should rain. Do not stockpile or store materials or large equipment within 10 feet of the back of the wall.

Place backfill materials in the areas as indicated on the plans and as detailed in this specification. Backfill lifts shall be no more than 8 inches in depth, after compaction.

Conduct backfilling operations in such a manner as to prevent damage or misalignment of the wall panels, soil reinforcement, or other wall components. At no expense to the department, correct any such damage or misalignment as directed by the engineer. A field representative of the wall supplier shall be available during wall construction to provide technical assistance to the contractor and the engineer.

Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing. Place and compact material beyond the reinforced soil zone to allow for proper compaction of material within the reinforced zone. The MSE reinforcement shall lay horizontally on top of the most recently placed and compacted layer of MSE backfill.

Do not operate tracked or wheeled equipment on the backfill within 3 feet from the back panels. The engineer may order the removal of any large or heavy equipment that may cause damage or misalignment of the panels.

C.2 Compaction

Compact all backfill behind the wall as specified in standard spec 207.3.6. Compact the backfill to 95.0% of maximum dry density as determined by AASHTO T-99 (modified to compute densities to the nearest 0.1 pcf).

Ensure adequate moisture is present in the backfill during placement and compaction to prevent segregation and to help achieve compaction.

Compaction of backfill within 3 feet of the back face of the wall should be accomplished using lightweight compaction devices. Use of heavy compaction equipment or vehicles should be avoided within 3 feet of the panels. Do not use sheepsfoot or padfoot rollers within the reinforced soil zone.

A minimum of 3 inches of backfill shall be placed over the MSE reinforcement prior to working above the reinforcement.

C.3 Wall Components

C.3.1 General

Erect panel facing and other associated elements according to the wall manufacturer’s construction guide. Place and compact the MSE backfill to the level of the next higher layer of MSE reinforcement before placing the MSE reinforcement or connecting it to the wall facing.

The MSE reinforcement shall lay horizontally on the top of the most recently placed and compacted layer of MSE backfill. Bending of MSE reinforcement that result in a kink in the reinforcement shall not be allowed. If skewing of the reinforcement is required due to obstructions in the reinforced fill, the maximum skew angle shall not exceed 15 degrees from the normal position unless a greater angle is shown on the plans. The adequacy of the skewed reinforcement in such a case shall be addressed by supporting calculations.

C.3.2 Leveling Pad

Provide an unreinforced cast-in-place concrete leveling pad as shown on the plans. Vertical tolerances shall not exceed 3/4-inch when measured along a 10-foot straight edge. Allow concrete to set at least 12 hours prior to placing wall facing units.

The bottom row of wall facing units shall be horizontal and 100% of the unit surface shall bear on the leveling pad. Rubber or plastic shims may be used to level the wall facing units at the leveling pad. No more than 2 shims (each 3/16-inch thick) shall be used to level the wall facing.

C.3.3 Steel Layers

Place the steel reinforcement full width in one piece as shown on the plans. No splicing will be allowed. Maintain elements in position during backfilling.

C3.4 Panel Tolerances

As backfill material is placed behind a panel, maintain the panel in its proper inclined position according to the supplier specifications and as approved by the engineer. The supplier shall specify the back batter so that the final position of the wall is vertical. Vertical tolerances and horizontal alignment tolerances shall not exceed ¾-inch when measured along a 10-foot straight edge. The maximum allowable offset in any panel joint shall be ¾-inch. The overall vertical tolerance of the wall (plumbness from top to bottom) shall not

exceed ½-inch per 10 feet of wall height. Erect the precast face panels to ensure that they are located within 1 inch from the contract plan offset at any location to ensure proper wall location at the top of the wall. Provide a ¾-inch joint separation between all adjacent face panels to prevent direct concrete-to-concrete contact. Maintain this gap by the use of bearing pads and/or alignment pins. Failure to meet this tolerance shall cause the engineer to require the contractor to disassemble and re-erect the affected portions of the wall. In addition, imperfect molding, honeycombing, cracking or severe chipping of panels shall be cause of panel rejection.

C.4 Quality Management Program

C.4.1 Quality Control Plan

Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not perform MSE wall construction work before the engineer reviews and accepts the plan. Construct the project as the plan provides.

Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:

An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.

The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.

A list of source locations, section and quarter descriptions, for all aggregate materials requiring QC testing.

Descriptions of stockpiling and hauling methods.

An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

Location of the QC laboratory, retained sample storage, and other documentation.

A summary of the locations and calculated quantities to be tested under this provision.

A proposed sequencing plan of wall construction operations and random test locations.

C.4.2 Quality Control Personnel

Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians. Have a HTCP Grading Technician I (GRADINGTEC-I); or Assistant Certified Technician, Grading (ACT-GRADING); or Aggregate Technician I (AGGTEC-I); or Assistant Certified Technician, Aggregate (ACT-AGG) present at the each grading site during all wall backfill placement, compaction, and nuclear testing activities. Have a HTCP Nuclear Density Technician I (NUCDENSITYTEC-I) or Assistant Certified Technician, Nuclear Density Gauge Operator (ACT-NUC) perform field density and field moisture content testing.

If an Assistant Certified Technician (ACT) is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

C.4.3 Equipment

Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.

Furnish nuclear gauges from the department's approved product list at:

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

Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.

Conform to AASHTO T310 and CMM 8-15 for density testing and gauge monitoring methods.

Split each Proctor sample and identify so as to provide comparison with the department's test results. Unless the engineer directs otherwise, retain the QC split samples for 14 calendar days and promptly deliver the department's split samples to the department.

C.4.4 Documentation

Document all observations, inspection records, and process adjustments daily. Submit test results to the department's project materials coordinator on the same day they become available.

Use forms provided in CMM Chapter 8. Note other information in a permanent field record and as a part of process control documentation enumerated in the contractor's quality control plan. Enter QC data and backfill material certified report results into the applicable materials reporting system (MRS) software within 5 business days after results are available.

Submit final testing records and other documentation to the engineer electronically within 10 business days after all contract-required information becomes available. The engineer may allow submission of scanned copies of hand-written documentation.

C.4.5 Quality Control (QC) Testing

Perform compaction testing on the backfill. Conform to CMM 8-15 for testing and gauge monitoring methods. Conduct testing at a minimum frequency of 1 test per 150 cubic yards of backfill, or major portion thereof in each lift. A minimum of one test for every lift is required. Deliver documentation of all compaction testing results to the engineer at the time of testing.

Perform 1 gradation test every 750 cubic yards of fill and one 5-point Proctor test (or as modified in C.2) every 2,250 cubic yards of fill. Provide the region split samples of both within 72 hours of sampling, at the region laboratory. Test sites shall be selected using ASTM Method D3665. Provide Proctor test results to the engineer within 48 hours of sampling. Provide gradation test results to the engineer within 24 hours of sampling.

C.4.6 Department Testing

C.4.6.1 General

The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project and provide test results to the contractor within 2 business days after the department obtains the sample.

C.4.6.2 Quality Verification (QV) Testing

The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in C.4.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

The department will conduct QV tests at the minimum frequency of 30% of the required contractor density, Proctor and gradation tests.

The department will locate density tests and gradation samples randomly, at locations independent of the contractor’s QC work. The department will split each Proctor and gradation QV sample, testing half for QV, and retaining the remaining half for 10 business days.

The department will conduct QV Proctor and gradation tests in a separate laboratory and with separate equipment from the contractor’s QC tests. The department will use the same methods specified for QC testing.

The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further action. If density QV test results are nonconforming, the area shall be reworked until the density requirements of this special provision are met. If the gradation test results are nonconforming, standard spec 106.5 will apply. Differing QC and QV nuclear density values of more than 1.5 pcf will be investigated and resolved. QV density tests will be based on the appropriate QC Proctor test results, unless the QV and QC Proctor result difference is greater than 3.0 pcf. Differing QC and QV Proctor values of more than 3.0 pcf will be investigated and resolved.

C.4.6.3 Independent Assurance (IA)

Independent assurance is unbiased testing the department performs to evaluate the department’s QV and the contractor’s QC sampling and testing, including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department’s independent assurance program. That review may include one or more of the following:

1. Split sample testing.

2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. Reviewing required worksheets and control charts.
6. Requesting that testing personnel perform additional sampling and testing.

If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in C.4.6.4.

C.4.6.4 Dispute Resolution

The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

Production test results, and results from other process control testing, may be considered when resolving a dispute.

If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C.5 Geotechnical Information

Geotechnical data to be used in the design of the wall is given on the wall plan. After completing wall excavation of the entire reinforced soil zone, notify the department and allow the Regional Soils Engineer two working days to review the foundation.

D Measurement

The department will measure Wall Concrete Panel Mechanically Stabilized Earth by the square foot, acceptably completed. The department will compute the measured quantity from the theoretical pay limits the contract plans show. The department will make no allowance for wall area constructed above or below the theoretical pay limits. All work beyond the theoretical pay limits is incidental to the cost of work. The department will make no allowance for as-built quantities.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.01	Wall Concrete Panel Mechanically Stabilized Earth R-13-0370	SF
SPV.0165.02	Wall Concrete Panel Mechanically Stabilized Earth R-13-0371	SF

Payment is full compensation for supplying a design and shop drawings; preparing the site, including all necessary excavation and disposal of materials; supplying all necessary wall components to produce a functional wall system including cap, copings, leveling pads, leveling pad steps, and shims; constructing the retaining system and providing temporary drainage; providing backfill, backfilling, compacting, developing/completing/documenting the quality management program, and performing compaction testing.

The department will pay separately for parapets, traffic barriers, railings, and other items above the wall cap or coping.

131. 3-Inch Clear Stone, Item SPV.0195.01.

A Description

This special provision describes providing 3-inch clear stone as shown in the plans and as hereby described in this special provision.

B Materials

Furnish durable field or quarry stone that is sound, hard, dense, resistant to the action of air and water, and free of seams, cracks, or other structural defects. Use rounded stone pieces with a length and width no more than twice the thickness. Stone is to be relatively free of fines and sharp edges.

The department will determine the average dimension of stone pieces by averaging measurements of thickness, width, and length. The stone is to primarily consist of pieces that measure 2 inches in size.

Material shall be accepted by visual inspection. Do not place material without the engineer's approval of the stone quality, size, and shape.

C Construction

Excavate and prepare the bed for placing the clear stone at locations and depths as shown in the plans or as directed by the engineer. After placing the clear stone, restore the surface of adjacent work and dispose of surplus material.

Lay the 3-inch clear stone and firmly bed it in the slope and against the adjoining stones. Lay the stones perpendicular to the slope with ends in contact. Compact the clear stone thoroughly as construction progresses. Make the finished surface even and tight. Place larger stone in the lower courses. Chink spaces between stones by firmly ramming spalls into place.

D Measurement

The department will measure 3-inch Clear Stone by the ton, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	3-inch Clear Stone	TON

Payment is full compensation for excavating, preparing the bed; providing and placing the stone; restoring adjacent work; disposing of surplus material.

132. Construct Inside Drop 8-Inch, Item SPV.0200.40.

A Description

This special provision describes constructing inside drop structures on sanitary sewer access structures where shown in the drawings, or as directed by the City of Madison.

Inside Drops are required if the elevation difference between the flow line of the incoming pipe and the springline of the outgoing pipe is greater than 2 feet.

B Material

Provide all materials associated with this item according to Standard Detail Drawing 5.7.30 and Article 507.3(d)1 of the City of Madison Standard Specifications for Public Works Construction - Latest Edition.

C Construction

Construct Inside Drop according to Article 507.3(d)1 of the City of Madison Standard Specifications for Public Works Construction - Latest Edition.

Maintain the normal flow of wastewater at all times during installation of the sanitary sewer access structure, construction of the outside drop structure, and when connecting new and existing pipes to the structure.

Complete any necessary temporary wastewater control according to the City of Madison Standard Specifications for Public Works Construction - Latest Edition, and as described under bid item Wastewater Control item.

D Measurement

The department will be measure Construct Inside Drop 8-Inch by the vertical foot, acceptably completed, measured from the invert of the entree Tee to the springline of the outgoing sewer according to City of Madison Standard Detail Drawing 5.7.30.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0200.40	Construct Inside Drop 8-inch	VF

Payment is full compensation for excavating, backfilling and disposing of surplus materials; and for making connections; and for furnishing all materials, labor and incidentals necessary to complete the work.

ADDITIONAL SPECIAL PROVISION 1 (ASP 1)
FOR TRANSPORTATION ALLIANCE FOR NEW SOLUTIONS (TrANS)
PROGRAM EMPLOYMENT PLACEMENTS AND APPRENTICESHIPS

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), Section 5204(e) – Surface Transportation Workforce Development Training and Education, provides for 100 percent Federal funding if the core program funds are used for training, education, or workforce development purposes, including "pipeline" activities. The core programs includes: Congestion Mitigation and Air Quality Improvement (CMAQ) Program, Highway Bridge Program (HBP), Interstate Maintenance (IM), National Highway System (NHS), and Surface Transportation Program (STP). These workforce development activities cover surface transportation workers, including OJT/SS programs for women and minorities as authorized in 23 U.S.C. §140(b).

TrANS is an employment program originally established in 1995 in Southeastern Wisconsin. Currently TrANS has expanded to include TrANS program locations to serve contractors in Southeast (Milwaukee and surrounding counties), Southcentral (Dane County and surrounding counties including Rock County), and most Northeastern Wisconsin counties from locations in Keshena, Rhinelander and surrounding far Northern areas. TrANS attempts to meet contractor's needs in other geographic locations as possible. It is an industry driven plan of services to address the outreach, preparation, placement and retention of women, minorities and non-minorities as laborers and apprentices in the highway skilled trades. These candidate preparation and contractor coordination services are provided by community based organizations. For a list of the TrANS Coordinators contact the Disadvantaged Business Enterprise Office at (414) 438-4583 in Milwaukee or (608) 266-6961 in Madison. These services are provided to you at no cost.

I. BASIC CONCEPTS

Training reimbursements to employing contractors for new placements, rehires or promotions to apprentice of TrANS Program graduates will be made as follows:

1) **On-the-Job Training, Item ASP.1T0G, ASP 1 Graduate.** At the rate of $5.00 per hour on federal aid projects when TrANS graduates are initially hired, or seasonally rehired, as unskilled laborers or the equivalent.

   Eligibility and Duration: To the employing contractor, for up to 2000 hours from the point of initial hire as a TrANS program placement.

   Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that __8__ *(number)* TrANS Graduate(s) be utilized on this contract.

2) **On-the-Job Training, Item ASP.1T0A, ASP 1 Apprentice.** At the rate of $5.00 per hour on federal aid projects at the point when an employee who came out of the TrANS Program is subsequently entered into an apprenticeship contract in an underutilized skilled trade (this will include the Skilled Laborer Apprenticeship when that standard is implemented).

Eligibility and Duration: To the employing contractor, for the length of time the TrANS graduate is in apprentice status.

Contract Goal: To maintain the intent of the Equal Employment Opportunity program, it is a goal that 4 *(number)* TrANS Apprentice(s) be utilized on this contract.

3) The maximum duration of reimbursement is two years as a TrANS graduate plus time in apprentice status.

4) If a TrANS program is not available in the contractor's area and another training program is utilized, payment of On-the-Job Training hours may be approved by the Wisconsin Department of Transportation (WisDOT) if the training program meets the established acceptance criteria. Only On-the-Job Training Hours accumulated after WisDOT approval will be reimbursed as specified under Items ASP.1T0G and ASP.1T0A. For more information, contact the Disadvantaged Business Enterprise Office at the phone numbers listed above.

5) WisDOT reserves the right to deny payments under items ASP.1T0G and ASP.1T0A if the contractor either fails to provide training or there is evidence of a lack of good faith in meeting the requirements of this training special provision.

II. RATIONALE AND SPECIAL NOTE

The $5.00 per hour now being paid for TrANS placements is intended to cover the duration of two years to allow for reaching entry-level laborer status. An additional incentive, the $5.00 rate, would promote movement into the underutilized skilled trades' apprenticeships and applies until the individual completes their apprenticeship. These incentives benefit TrANS candidates by giving them a better opportunity to enter a skilled trade; benefits contractors who will be assisted in meeting their EEO profiles and goals; and benefits the public who will see the program reinforce larger public-private employment reform in Wisconsin. The pool of TrANS graduates was created for the purpose of addressing underutilization in the skilled trades, an objective that is further reinforced by a parallel retention pilot program, known as the Companywide Reporting. *Whether or not reimbursement is involved, the WisDOT reassures contractors who are in the Companywide Program that TrANS placements still contribute toward fulfilling the new hire goal of 50% women and minorities.* Based on data administered by United States Department of Labor (US DOL), the highway skilled trades remain underutilized for women statewide (less than 6.9%); and for minorities in all counties (% varies by county).

NOTE: *Unless using other advancement strategies, contractors are encouraged to use some or all of this monetary incentive to offset the cut in hourly wages an individual may incur when entering an apprenticeship if the full general laborer hourly rate has been previously paid. No special accounting measures are required.*

III. IMPLEMENTATION

The implementation of ASP 1 is intended to cover only the amount of time it takes for underutilization to be resolved across the trades. This will be measured annually at the county and/or state levels using data administered by WisDWD in relation to goals set by the USDOL-

OFCCP. With appropriate state and federal approvals, we may also do some measurement at the company level.

It is the contractor's responsibility to note on their Certified Payrolls if their employee is a TrANS graduate or a TrANS apprentice. The District EEO Coordinators utilize the information on the Certified Payrolls to track the hours accumulated by TrANS Graduates and TrANS apprentices on WisDOT contracts. Payment under this ASP 1 is made based on the hours recorded off of the Certified Payrolls. Tracking may eventually include improved linkages with the WisDWD apprentice database, information from company and committee level sources.

TrANS is nondiscriminatory by regulation, and is a tool for optional use by contractors to address the underutilization of women and minorities as laborers and apprentices in our industry's skilled trades.

IV. *TRANS TRAINING*

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided to employees enrolled in apprenticeship and on-the-job training programs as follows:

The contractor shall provide on-the-job training aimed at developing full journey workers in the type of trade or job classifications involved. In the event the contractor subcontracts a portion of the contract work, the contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract.

Training and upgrading of minorities and women toward journey workers status is a primary objective of this training special provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority trainees and women trainees); to the extent such persons are available within a reasonable area of recruitment. The contractor will be given an opportunity and will be responsible for demonstrating the steps that they have taken in pursuance thereof, prior to determination as to whether the contractor is in compliance with this training special provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journey workers status or in which they have been employed as a journey worker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used, the contractor's records should document the findings in each case.

V. *APPRENTICESHIP TRAINING*

The Federal Highway Administration's (FHWA) policy is to require full use of all available training and skill improvement opportunities to assure increased participation of minority groups, disadvantaged persons and women in all phases of the highway construction industry. The FHWA On-the-Job Training (OJT) Program requires the State transportation agencies (STAs) to establish apprenticeships and training programs targeted to move women, minorities, and disadvantaged individuals into journey-level positions to ensure that a competent workforce is available to meet highway construction hiring needs, and to address the historical under-representation of members of these groups in highway construction skilled crafts.

The OJT Supportive Services (OJT/SS) Program was established in Title 23 Code of Federal Regulations (CFR), Part 230) to supplement the OJT program and support STA training programs by providing services to highway construction contractors and assistance to highway construction apprentices and trainees. The primary objectives of OJT/SS are:

(1) To increase the overall effectiveness of the State highway agencies' approved training programs.
(2) To seek other ways to increase the training opportunities for women, minorities, and disadvantaged individuals.

The STAs are responsible for establishing procedures, subject to the availability of Surface Transportation and Bridge Funds under 23 U.S.C. §140(b*)* (Nondiscrimination), for the provision of supportive services with respect to training programs approved under 23 CFR, Part 230(a*)* (Equal Employment Opportunity on Federal and Federal-aid Construction Contracts – including Supportive Services).

The contractor and subcontractor shall maintain records to demonstrate compliance with these apprenticeship requirements. Reasonable exemptions and modifications to and from any or all of these requirements will be determined by the Wisconsin Department of Transportation-Civil Rights Office. A request for an exemption or modification, with justification, shall be made in writing, addressed to WisDOT Civil Rights Office, 4802 Sheboygan Avenue, P.O. Box 7965, Rm. 451, Madison, WI 53707.

ADDITIONAL SPECIAL PROVISION 3

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM IMPLEMENTATION

Authority

Wisconsin Department of Transportation (WisDOT) is a recipient of funds from the US Department of Transportation's Federal Highway Administration. The DBE program is a federal program applicable on all contracts administered by WisDOT that include federal-aid highway funds. The authority for the DBE program is the Transportation Bill as approved by Congress periodically. DBE program guidance and requirements are outlined in the Code of Federal Regulations at 49 CFR Part 26. This contract is subject to DBE provisions because it is financed with federal-aid-highway funds. Additionally, this contract is subject to the *State of Wisconsin Standard Specifications for Highway and Structure Construction* and all applicable contract documents.

Requirements

Pursuant to the federal DBE program regulation at 49 CFR Part 26, a contractor's failure to comply with any provision of the DBE program regulatory provisions will be considered a material breach of contract. This is nonnegotiable.

If a contractor fails to carry out the DBE program requirements and/or the Required Contract Provisions for Federal Aid Contracts (FHWA 1273) referenced in this document, sanctions will be assessed depending upon the facts, reasoning, severity, and remedial efforts of the contractor that may include: termination of contract, withholding payment, assessment of monetary sanctions, and/or suspension/debarment proceedings that could result in the disqualification of the contractor from bidding for a designated period of time.

(1) The Commitment to Subcontract to DBE (Form DT1506 or digital submittal), Attachments A, and Good Faith Effort Documentation (Form DT1202) will be submitted as described in Section 2.
(2) Any change to DBE Commitments thereafter must follow modification of DBE subcontracting commitment as described in Section 9.
(3) The Department requires this list of DBE subcontractors from all bidders at time of bid to ensure the lowest possible cost to taxpayers and fairness to other bidders and subcontractors. Bid shopping is prohibited.
(4) The contractor must utilize the specific DBE firms listed in the approved DBE Commitment to perform the work and/or supply the materials for which the DBE firm is listed unless the contractor obtains written consent in advance from WisDOT. The contractor will not be entitled to payment for any work or materials on the approved DBE Commitment that is not performed or supplied by the listed DBE without WisDOT's written consent.

Description

The Wisconsin Department of Transportation is committed to the compliant administration of the DBE Program. The DBE provisions work in tandem with FHWA 1273 and WisDOT's *Standard Specifications for Highway and Structure Construction* and *Construction and Materials Manual*. The WisDOT Secretary is signatory to assurances of department-wide compliance.

The Department assigns the contract DBE goal as a percentage of work items that could be performed by certified DBE firms on the contract. The assigned DBE goal is expressed on the bid proposal as a percentage applicable to the total contract bid amount.

(1) WisDOT identifies the assigned DBE goal in its contract advertisements and posts the contract DBE goal on the cover of the bidding proposal. The contractor can meet the assigned contract DBE goal by subcontracting work to a DBE firm or by procuring services or materials from a DBE firm.

(2) Under the contract, the prime contractor should inform, advise, and develop participating DBE firms to be more knowledgeable contractors who are prepared to successfully complete their contractual agreement through the proactive provision of assistance in the following areas:
- Produce accurate and complete quotes
- Understand highway plans applicable to their work
- Understand specifications and contract requirements applicable to their work
- Understand contracting reporting requirements

(3) The Department encourages contractors to assist DBE subcontractors more formally by participating in WisDOT's Business Development program as a mentor, coach, or resource. For comprehensive information on the Disadvantaged Business Enterprise Program, visit the Department's Civil Rights and Compliance Section website at: http://wisconsindot.gov/Pages/doing-bus/civil-rights/dbe/default.aspx

1. Definitions

Interpret these terms, used throughout this additional special provision, as follows:

a. **Assigned DBE Contract Goal:** The percentage shown on the cover of the Highway Work Proposal that represents the feasible level of DBE participation for each contract. The goal is calculated using the Engineer's Estimate and DBE Interest Report. Goal assignment includes review of FHWA funds, analyzes bid items for subcontract opportunity and compatibility with DBE certified firm work codes. Additional factors considered include proximity, proportion, and regulations.

b. **Bid Shopping:** In construction law, bid shopping is the practice of divulging a subcontractor's bid to another prospective contractor(s) before or after the award of a contract to secure a lower bid.

c. **DBE:** Disadvantaged Business Enterprise – A for-profit small business concern where socially and economically disadvantaged individuals own at least a 51% interest and control management and daily business operations.

d. **DBE Commitment:** The DBE Commitment is identified in the Commitment to Subcontract to DBE (Form DT1506) and is expressed as the amount of DBE participation the prime contractor has secured. The DT1506, a contract document completed by the bidder, is required to be considered a responsive bidder on an FHWA-funded contract that has an assigned DBE goal. The prime contractor will have the option to submit the DT1506 digitally, as an entry with the bid in Bid Express, or as an attachment to the bid.

e. **DBE Utilization:** The actual participation of a DBE subcontractor on a project. WisDOT verifies DBE utilization through review of the DBE Commitment, payments to subcontractors, and contract documentation. The Prime Contractor receives DBE credit for payments made to the DBE firms performing the work listed on the approved DBE Commitment, and those submitted after approved commitment with Attachment A.

f. **Good Faith Effort:** Legal term describing a diligent and honest effort taken by a reasonable person under the same set of facts or circumstances. For DBE subcontracting, the bidder must show that it took all necessary and reasonable steps to achieve the assigned DBE goal by the scope, intensity, and appropriateness of effort that could reasonably be expected for a contractor to obtain sufficient DBE participation.

g. **Manufacturer:** A firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract.

h. **Reasonable Price:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price.

i. **Supplier:** A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under the contract are bought, kept in stock, and regularly sold or leased to the public.

j. **Tied quote:** Subcontractor quote that groups multiple bid/line items at a bundled/package price with a notation that the items within the quote will not be separated.

2. WisDOT DBE Program Compliance

a. Documentation Submittal

- The Commitment to Subcontract to DBE (Form DT1506 or digital submittal) must be submitted at the time of bid (Tuesday) by all prime contractors.
- Attachments A OR quotes from all DBEs included in the Commitment must be submitted at bid (Tuesday) **OR**
- Within one-hour following bid submittal by ALL prime contractors via eSubmit (Tuesday).
- If only DBE quotes were submitted, all remaining signed Attachments A must be submitted within 24-hours of bid closing via eSubmit (Wednesday).
- If the assigned DBE contract goal is not met, Documentation of Good Faith Effort (Form DT1202) and supporting documentation must be submitted within 24-hours of bid closing (Wednesday) via eSubmit. Instructions for eSubmit.

**Bidders have the option of submitting the DBE Commitment at the time of bid via direct entry through Bid Express OR with attachment of Form DT1506 (Commitment to Subcontract to DBE). The DBE Commitment entered with bid is the digital form of the DT1506. Separate submission of Form DT1506 is not required if the DBE Commitment is entered in Bid Express. Form DT1202, if applicable, is no longer required to be submitted at time of bid; submit DT1202 within the 24-hour supplemental time frame following bid closing.

The DBE Office will not certify Good Faith Effort and the Bureau of Project Development will consider the bid nonresponsive if the contractor fails to furnish the DBE Commitment (digitally entered into the bid OR Form DT1506 as an attachment), Attachments A, and Form DT1202 if applicable, as required. See sample forms in the Appendix.

b. Verification of DBE Commitment

The documentation related to DBE subcontract commitment submitted prior to contract award is evaluated as follows:

(1) DBE Goal Met

If the bidder indicates that the contract DBE goal is met, the Department will evaluate the DBE Commitment submitted with bid OR Form DT1506, and Attachments A to verify the actual DBE percentage calculation. If the DBE Commitment is verified, the contract is eligible for award with respect to the DBE Commitment.

(2) DBE Goal Not Met

a) If the bidder indicates a bid percentage on the DBE Commitment that does not meet the assigned DBE contract goal, the bidder must request alternative evaluation of good faith effort through

submission of Form DT1202 (Documentation of Good Faith Effort) within 24-hours of bid including narrative description. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. The Department will review the bidder's DBE Commitment and evaluate the bidder's good faith efforts submission.

b) Following evaluation of the bidder's Good Faith Effort documentation the bidder will be notified that the Department intends to:
   1. *Approve* the request (adequate documentation of GFE has been submitted)- no conditions placed on the contract with respect to the DBE Commitment;
   2. *Deny* the request (inadequate documentation of GFE has been submitted)- the contract is viewed as non-responsive per Wisconsin Standard Specifications for Highway and Structure Construction and will not be executed.

c) If the Department denies the bidder's request, the contract is ineligible for award. The Department will provide a written explanation for denying the request to the bidder. The bidder may appeal the Department's denial (see Section 4).

Supplemental good faith effort documentation must be submitted through eSubmit (preferred) OR to the DBE Office by email at: DBE_Alert@dot.wi.gov. Email naming convention: "Project #, Proposal #, Let date, Business Name, GFE"

3. Department's Criteria for Good Faith Effort Documentation

The Federal-aid Construction Contract Provision, referenced as FHWA-1273, explicitly states that the prime contractor shall be responsible for all work performed on the contract by piecework, station work, or subcontract. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of the contract including assurances of equal employment opportunity laws, DBE regulations, and affirmative action. Compliance encompasses responsible and responsive action, documentation, and good faith effort.

Contractually, all contractors, subcontractors, and service providers on the contract are bound by FHWA 1273 and DBE program provisions. **Prime contractors should encourage subcontractors to utilize DBE firms whenever possible to contribute to the assigned DBE contract goal.**

Bidders are required to document good faith effort. Per 49 CFR Part 26.53, good faith effort is demonstrated in one of two ways. The bidder:

(1) Documents that it has obtained enough DBE participation to meet the goal; OR
(2) Documents that it made adequate good faith efforts to meet the goal, even though it did not succeed

Appendix A of 49 CFR Part 26 provides guidance concerning good faith efforts. WisDOT evaluates good faith effort on a contract basis just as each contract award is evaluated individually.

The efforts employed by the bidder should be those that WisDOT can reasonably expect a bidder to take to actively and aggressively obtain DBE participation sufficient to meet the DBE contract goal. The Department will only approve demonstration of good faith effort if the bidder documents the quality, quantity, and intensity of the variety of activities undertaken that are commensurate with expected efforts to meet the stated goal.

The Department, in conjunction with industry stakeholders, has developed the following guidance for contractor good faith effort activity. The guidance and the attached appendices provide a framework for the actions required by all parties in the processing and evaluation of bidder's total efforts to achieve the project specific DBE goal prior to the bid letting date.

a. Solicitation Guidance for Prime Contractors:

(1) Document all efforts and decisions made toward achieving the DBE goal on the contract. The bidder should use WisDOT-approved DBE outreach tools, including the UCP DBE Directory and the Bid Express Small Business Network to foster DBE participation on all applicable contracts.

(2) As needed, request assistance with DBE outreach and follow-up by contacting the Department's DBE Support Services Office by phone or email request at least 14 days prior to the bid letting date. Phone numbers are (414) 438-4584 and/or (608) 267-3849; Fax: (414) 438-5392; E-mail: DBE_Alert@dot.wi.gov

(3) Participate in and document a substantive conversation with at least one DBE firm per Let, to discuss questions, concerns, and any other contract related matters that may be applicable to the DBE firm. Guidelines for this conversation are provided in Appendix A of ASP-3.

(4) Request quotes by identifying potential items to subcontract and solicit. In their initial contacts, contractors are strongly encouraged to include a single page, detailed list of items for which they are accepting quotes, by project, within a letting. *See attached sample entitled "Sample Contractor Solicitation Letter" in* Appendix B. Prime contractors should also indicate a willingness to accept quotes in areas they are planning to perform themselves, as required by federal rules. In some cases, it might be appropriate to use DBE firms to do work in a prime contractor's area of specialization.

i. Solicit quotes from certified DBE firms who match possible items to subcontract using all reasonable and available means. Additionally, forward copies of solicitations highlighting the work areas for which quotes are being sought to DBE_Alert@dot.wi.gov

ii. Acceptable outreach tools include SBN (Small Business Network, see Appendix C): https://www.bidx.com/wi/main, postal mail, email, fax, and phone.

a. Contractors must ask DBE firms for a response in their solicitations. See *Sample Contractor Solicitation Letter,* Appendix B. This letter may be included as an attachment to the sub-quote request.

b. Solicit quotes at least 10 calendar days prior to the letting date to allow DBE firms sufficient time to respond. Prime contractors should contact DBE firms early, asking if they need help organizing their quote, assistance confirming equipment needs, or other assistance supporting their submission of a competitive quote for their services.

c. A follow up solicitation should take place within 5 calendar days of the letting date. Email and/or SBN are the preferred method for the solicitation.

iii. Upon request, provide interested DBE firms with adequate information about plans, specifications, and the requirements of the contract by letter, information session, email, phone call, and/or referral.

iv. When potential exists, the contractor should advise interested DBE firms on how to obtain bonding, line of credit, or insurance if requested.

v. Document DBE firm's interest in quoting by taking appropriate steps to follow up initial solicitation with:

a. Email to all prospective DBE firms in relevant work areas

b. Phone call log to DBE firms who express interest via written response or call

c. Fax/letter confirmation

d. Signed copy of record of subcontractor outreach effort

b. Guidance for Evaluating DBE quotes

(1) Quote evaluation practices required to evaluate DBE quotes:

i. Reasonable Price**:** Contractors are expected to assess reasonable price by analyzing the contract scope for DBE subcontract feasibility and comparing common line items in DBE and non-DBE subcontract quotes for the same work. Per federal regulation, reasonable price is not necessarily the lowest price. See 49 CFR Part 26, Appendix A. IV.D(2).

(2) Documentation submitted by the prime of the following evaluation is required to evaluate DBE quotes by contractors:

i. Evaluation of DBE firm's ability to perform "possible items to subcontract" using legitimate reasons, including but not limited to, ***a discussion*** between the prime and DBE firm regarding its capabilities prior to the bid letting. If lack of capacity is the reason for not utilizing the DBE firm's quote, the prime is required to contact the DBE by phone and email regarding their ability to perform the work indicated in the UCP directory listed as their work area by NAICS code. Only the work area indicated by the NAICS code(s) listed in the UCP directory can be counted toward DBE credit. Documentation of the conversation is required.
    a In striving to meet an assigned DBE contract goal, contractors are expected to use DBE quotes that are responsive and reasonable. This includes DBE quotes that are not the low quote.
    b Additional evaluation - Evaluation of DBE quotes with tied bid items. Typically, this type of quoting represents a cost saving but is not clearly stated as a discount. Tied quotes are usually presented as an 'all or none' quote. When non-DBE subcontractors submit tied bid items in their quotes, the DBE firm's quote may not appear competitive. In such a case, the following steps are taken in comparing the relevant quotes. These are qualitative examples:
        i Compare bid items common to both quotes, noting the reasonableness in the price comparison.
        ii Review quotes from other firms for the bid items not quoted by the DBE firm to see if combining both can provide the same competitive advantage that the tied bid items offered.

See Appendix D – *Good Faith Effort Evaluation Measures* and Appendix E - *Good Faith Effort Best Practices.*

c. Requesting Good Faith Effort Evaluation At the time of bid- if the DBE goal is not met in full, the prime contractor must indicate they will file form DT1202- Documentation of Good Faith Effort within 24-hours of bid submission. Supplementary documentation of good faith effort that supports the DT1202 submission is also due within 24-hours of bid submission and prior to bid posting. Supporting documentation for the DT1202 is to include the following:

(1) Solicitation Documentation: The names, addresses, email addresses, and telephone numbers of DBE firms contacted along with the dates of both initial and follow-up contact; electronic copies of all written solicitations to DBE firms. A printed copy of SBN solicitation is acceptable.

(2) Selected Work Items Documentation: Identify economically feasible work units to be performed by DBEs to include activities such as: list of work items to be performed; breaking up of large work items into smaller tasks or quantities; flexible time frames for performance and delivery schedules.

(3) Documentation of Project Information provided to interested DBEs: A description of information provided to the DBE firms regarding the plans, specifications, and estimated quantities for portions of the work to be performed by that DBE firm.

(4) Documentation of Negotiation with Interested DBEs: Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts.

(5) Documentation of Sound Reasoning for Rejecting DBEs and copies of each quote received from a DBE firm and, if rejected, copies of quotes from non-DBEs for same items.

(6) Documentation of Assistance to Interested DBEs- Bonding, Credit, Insurance, Equipment, Supplies/Materials

(7) Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support: Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Naming conventions: eSubmit (preferred) follow instructions OR when emailing files, use the following language to identify your submission- “Project #, Proposal #, Let date, Business Name, GFE” Email: DBE_Alert@dot.wi.gov

If the Good Faith Effort documentation is deemed adequate, the request will be approved and the DBE office will promptly notify the Prime Contractor and Bureau of Project Development.

If the DBE Office denies the request, the Prime Contractor will receive written correspondence outlining the reasons. The Department encourages the Prime Contractor to communicate with DBE staff to clarify any questions related to meeting goals and/or contractor demonstration of good faith efforts.

If the contract is awarded, the Prime Contractor must obtain written consent from the DBE Office to change or replace any DBE firm listed on the approved DBE Commitment. No contractor, prime or subsequent tier, shall be paid for completing work assigned to a DBE subcontractor on an approved DBE Commitment unless WisDOT has granted permission for the reduction, replacement, or termination of the assigned DBE in writing. If a prime contractor or a subcontractor on any tier uses its own forces to perform work assigned to a DBE on an approved DBE Commitment, **they will not be paid for the work**. Any changes to DBE Commitment after the approval of the DBE Commitment must be reviewed and approved by the DBE Office prior to the change (see Section 9).

4. Bidder's Documentation of Good Faith Effort Evaluation Request Appeal Process

A bidder can appeal the Department's decision to deny the bidder’s demonstration of Good Faith Effort through Administrative Reconsideration. The bidder must provide a written justification refuting the specific reasons for denial as stated in the Department's denial notice. The bidder may meet in person with the Department if so requested. Failure to appeal within 5 business days after receiving the Department's written notice denying the request constitutes a forfeiture of the bidder's right of appeal. Receipt of appeal is confirmed by email date stamp or certified mail signed by WisDOT staff. A contract will not be executed without documentation that the DBE provisions have been fulfilled.

The Department will appoint a representative who did not participate in the original good faith effort determination, to assess the bidder's appeal. The Department will issue a written decision within 5 business days after the bidder presents all written and oral information. In that written decision, the Department will explain the basis for finding that the bidder did or did not demonstrate an adequate good faith effort to meet the contract DBE goal. The Department's decision is final.

5. Determining DBE Eligibility

Directory of DBE firms

a. The only resource for DBE firms certified in the State of Wisconsin is the Wisconsin Unified Certification Program (UCP) DBE Directory. WisDOT maintains a current list of certified DBE firms at: http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/dbe-ucp-directory.xlsx

b. The DBE Program office is available to assist with contracting DBE firms:(608) 267-3849.

c. DBE firms are certified based on various factors including the federal standards from the Small Business Administration that assigns a North American Industrial Classification (NAICS) Codes. DBE firms are only eligible for credit when performing work in their assigned NAICS code(s). If a DBE subcontractor performs work that is not with its assigned NAICS code, the prime contractor should contact the DBE Office to inquire about compatibility with the Business Development Program.

6. Counting DBE Participation

Assessing DBE Work

The Department will only count the DBE usage towards the contract DBE goal if the DBE firm is certified as a DBE by one of the UCP agencies. The Department only counts the value of the work a DBE actually performs towards the DBE goal. The Department assesses the DBE work as follows:

a. The Department counts work performed by the DBE firm's own resources. The Department includes the cost of materials and supplies the DBE firm obtains for the work. The Department also includes the cost of equipment the DBE firm leases for the work. The Department will not include the cost of materials, supplies, or equipment the DBE firm purchases or leases from the prime contractor or its affiliate, with the exception of non-project specific leases the DBE has in place before the work is advertised.

b. The Department counts fees and commissions the DBE subcontractor charges for providing bona fide professional, technical, consultant, or managerial services. The Department also counts fees and commissions the DBE charges for providing bonds or insurance. The Department will only count costs the program engineer deems reasonable based on experience or prevailing market rates.

c. If a DBE firm subcontracts work, the Department counts the value of the work subcontracted to a DBE subcontractor.

d. The contractor will maintain records and may be required to furnish periodic reports documenting its performance under this item.

e. It is the Prime Contractor's responsibility to determine whether the work that is committed and/or contracted to a DBE firm can be counted for DBE credit by referencing the work type and NAICS code listed for the DBE firm on the Wisconsin UCP DBE Directory.

f. It is the Prime Contractor's responsibility to assess the DBE firm's ability to perform the work for which it is committing/contracting the DBE to do. Note that the Department encourages the Prime Contractor to assist and develop DBE firms to become fully knowledgeable contractors to successfully perform on its contracts.

g. The Prime Contractor will inform the DBE office via email of all DBE subcontractors added to the project following execution of the contract. The Prime Contractor may omit submission of another form DT1506, but must submit signed Attachment A forms for additional DBE firms.

h. See Section 7 for DBE credit evaluation for Trucking and Section 8 for DBE credit evaluation for Manufacturers, Suppliers, and Brokers

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, Attachment A" Email: DBE_Alert@dot.wi.gov

*Note: A sublet request is required for DBE work, regardless of subcontract tier, and also for reporting materials or supplies furnished by a DBE.

- Sublet Requests via form DT1925 or WS1925 are required for 1st Tier DBEs
- For all 2nd Tier and below notification of DBE sublet is indicated by the contractor entering them in CRCS

7. Credit Evaluation for Trucking

All bidders are expected to adhere to the Department's current trucking policy posted on the HCCI website at: http://wisconsindot.gov/Documents/doing-bus/civil-rights/dbe/trucking-utilization-policy.pdf

The prime contractor is responsible for ensuring that all subcontractors including trucking firms, receive Form FHWA 1273: https://www.fhwa.dot.gov/programadmin/contracts/1273/1273.pdf

See Section 8 for Broker credit.

8. Credit Evaluation for Manufacturers, Suppliers, Brokers

The Department will calculate the amount of DBE credit awarded to a prime using a DBE firm for the provisions of materials and supplies on a contract-by-contract basis. The Department will count the material and supplies that a DBE firm provides under the contract for DBE credit based on whether the DBE firm is a manufacturer, supplier, or broker. Generally, DBE credit is determined through evaluation of the DBE owner's role, responsibility, and contribution to the transaction. Maximum DBE credit is awarded when the DBE firm manufactures materials or supplies. DBE credit decreases when the DBE firm solely supplies materials, and minimal credit is allotted when the DBE firm's role is administrative or transactional. It is the bidder's responsibility to confirm that the DBE firm is considered a supplier or a manufacturer before listing them on Commitment to Subcontract to DBE form DT1506 or DBE Commitment submitted with the bid.

a. Manufacturers

(1) A manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.

(2) If the materials or supplies are obtained from a DBE manufacturer, **100%** percent of the cost of the materials or supplies counts toward DBE goals.

b. Regular Dealers of Material and/or Supplies

(1) Supplies purchased in bulk from DBE firms at the beginning of the season may be credited to current contracts if submitted with appropriate documentation to the DBE office.

(2) A regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

(3) If the materials or supplies are purchased from a DBE regular dealer, count **60%** percent of the cost of the materials or supplies toward DBE goals.

(4) At a minimum, a regular dealer must meet the following criteria to be counted for DBE credit:

i. The DBE firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.

ii. The DBE firm must both own and operate distribution equipment for the product--bulk items such as petroleum products, steel, cement, gravel, stone, or asphalt. If some of the distribution equipment is leased, the lease agreement must accompany the DBE Commitment form for evaluation of the dealer's control before the DBE office approves the DBE credit.

(5) When DBE suppliers are contracted, additional documentation must accompany the DBE Commitment and Attachment A forms. An invoice or bill-of-sale that includes names of the bidder and the DBE supplier, along with documentation of the calculations used as the basis for the purchase agreement, subcontract, or invoice. WisDOT recognizes that the amount on the Attachment A form may be more or less than the amount on the invoice per b.(1) above.

i. The bidder should respond to the following questions and include with submission of form DT1506 or the DBE Commitment entered with bid:
   a. What is the product or material?
   b. Is this item in the prime's inventory or was the item purchased when contract was awarded?
   c. Which contract line items were referenced to develop this quote?
   d. What is the amount of material or product used on the project?

c. Brokers, Transaction Expediters, Packagers, Manufacturers' Representatives

(1) No portion of the cost of the materials, supplies, services themselves will count for DBE credit. However, WisDOT will evaluate the fees or commissions charged when a prime purchases materials, supplies, or services from a DBE certified firm which is neither a manufacturer nor a regular dealer, namely: brokers, packagers, manufacturers' representatives, or other persons who arrange or expedite transactions.

(2) Brokerage fees are calculated as **10%** of the purchase amount.

(3) WisDOT may count the amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees, or transportation charges for the delivery of materials or supplies required on a job site.

(4) Evaluation of DBE credit includes review of the contract need for the item/service, the sub-contract or invoice for the item/service, and a comparison of the fees customarily allowed for similar services to determine whether they are reasonable.

9. DBE Commitment Modification Policy (Formerly "DBE Replacement Policy")

a. Issuing a Contract Change Order

Any changes or modifications to the contract once executed are considered contract modifications and as such require a change order. In addition, the DBE office must provide consent for reduction, termination, or replacement of subcontractors approved on the DBE Commitment *in advance* of the modification for the prime contractor to receive payment for work or supplies. Additions to the DBE Commitment do not require advance notification of the DBE office. (see below e. DBE Utilization beyond the approved DBE Commitment)

b. Contractor Considerations

(1) A prime contractor cannot modify the DBE Commitment through reduction in participation, termination, or replacement of a DBE subcontractor listed on the approved DBE Commitment without prior written consent from the DBE Office. This includes, but is not limited to, instances in which a prime contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.

(2) If a prime contractor reduces participation, replaces, or terminates a DBE subcontractor who has been approved for DBE credit toward its contract, the prime is required to provide documentation supporting its inability to fulfill the contractual commitment made to the Department regarding the DBE utilization.

(3) The Prime Contractor is required to demonstrate efforts to find another DBE subcontractor to perform at least the same amount of work under the contract as the DBE subcontractor that was terminated, to the extent needed to meet the assigned DBE contract goal.When additional opportunity is available by contract modifications, the Prime Contractor must utilize DBE subcontractors that were committed to equal work items, in the original contract.

(4) In circumstances when a DBE subcontractor fails to complete its work on the contract for any reason, or is terminated from a contract, the Prime Contractor must undertake efforts to maintain its commitment to the assigned DBE goal.

(5) The DBE subcontractor should communicate with the Prime Contractor regarding its schedule and capacity in the context of the contract. If the DBE firm anticipates that it cannot fulfill its subcontract, they will advise the Prime Contractor and suggest a DBE subcontractor that may replace their services and provide written consent to be released from its subcontract.

i. Before the Prime Contractor can request modification to the approved DBE Commitment, the Prime Contractor must:
   a. Make every effort to fulfill the DBE Commitment by working with the listed DBE subcontractor to ensure that the firm is fully knowledgeable of the Prime Contractor's expectations for successful performance on the contract. Document these efforts in writing.
   b. If those efforts fail, provide written notice to the DBE subcontractor of the Prime Contractor's intent to request to modify the Commitment through reduction in participation, termination, and/or replacement of the subcontractor including the reason(s) for pursuing this action.
   c. Copy the DBE Office on all correspondence related to changing a DBE subcontractor who has been approved for DBE credit on a contract, including preparation and coordination efforts.
   d. Clearly state the amount of time the DBE firm has to remedy and/or respond to the notice of intent to replace/terminate. The DBE must be allowed five days from the date notice was received as indicated by email time stamp or signed certified mail, to respond, in writing. EXCEPTION: The Prime Contractor must provide a verifiable reason for a response period shorter than five days. For example, a WisDOT project engineer or project manager confirms that WisDOT has eliminated an item the DBE subcontractor was contracted for.
   e. The DBE subcontractor must acknowledge the contract modification with written response to the Prime Contractor and the DBE Office. If objecting to the subcontract modification, the DBE subcontractor must outline the basis for objection to the proposed modification, providing sound reasoning for WisDOT to reject the prime's request.

c. Request to Modify DBE Subcontracting Commitment

The written request referenced above may be delivered by email or fax. The request must contain the following:

1. Project ID number
2. WisDOT Contract Project Engineer's name and contact information
3. DBE subcontractor name and work type and/or NAICS code
4. Contract's progress schedule
5. Reason(s) for requesting that the DBE subcontractor be replaced or terminated
6. Attach/include all communication with the DBE subcontractor to deploy/address/resolve work completion

Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, MODIFICATION" Email: DBE_Alert@dot.wi.gov + Project Engineer

WisDOT will review the request and any supporting documentation submitted to evaluate if the circumstance and the reasons constitute good cause for replacing or terminating the approved DBE subcontractor.

Good Causes to Replace a DBE subcontractor according to the federal DBE program guidelines {49 CFR part 26.53}

- The listed DBE subcontractor fails or refuses to execute a written contract
- The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor
- The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements
- The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness
- The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215, and 1,200 or applicable state law
- The prime has determined that the listed DBE subcontractor is not a responsible contractor

- The listed DBE subcontractor voluntarily withdraws from the project and provides written notice of its withdrawal
- The listed DBE subcontractor is ineligible to receive DBE credit for the type of work required
- A DBE firm owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract

d. Evaluation and Response to the Request

WisDOT's timely response to the Prime Contractor's request for modification of the approved DBE Commitment will be provided to the prime and the WisDOT project engineer via email.

If WisDOT determines that the Prime Contractor's basis for reduction in participation, replacement, or termination of the DBE subcontractor is not consistent with the good cause guidelines, the DBE office will provide a response via email within 48-hours of receipt of request from the Prime Contractor as indicated by email time stamp. The communication will include: the requirement to utilize the committed DBE, actions to support the completion of the contractual commitment, a list of available WisDOT support services, and administrative remedies, including withholding payment to the prime, that may be invoked for failure to comply with federal DBE guidelines for DBE replacement.

The WisDOT contact for all actions related to modification of the approved DBE Commitment is the DBE Program Engineer who can be reached at DBE_Alert@dot.wi.gov or (414) 335-0413.

e. DBE Utilization beyond the approved DBE Commitment

When the prime or a subcontractor increases the scope of work for an approved DBE subcontractor or adds a DBE subcontractor who was not on the approved form DT1506 or DBE Commitment submitted with bid at any time after contract execution, this is referred to as voluntary DBE contract goal achievement. The contractor must follow these steps to ensure that the participation is accurately credited toward the DBE goal:

(1) Forward a complete, signed Attachment A form to the DBE Office. A complete Attachment A includes DBE subcontractor contact information, signatures, subcontract value, and description of the work areas to be performed by the DBE. The DBE Office will verify the DBE participation and revise the DBE Commitment based on the email/discussion and the new Attachment A.

(2) When adding to an existing DBE Commitment, submit a new Attachment A to the DBE Alert mailbox

(3) OR Submit a final Attachment A to DBE Alert during the Finals Process when Compliance receives notice of "Substantially Complete"
Naming conventions: When emailing files, please use the following language to identify your submission- "Project #, Proposal #, Let date, Business Name, New Attachment A" Email: DBE_Alert@dot.wi.gov

Special note on trucking

- DBE truckers added to the sublets in CRCS *will* be approved without DBE credit (You will see a "N" in CRCS instead of "Y")
- Prime Contractors may enter a "place holder" e.g. $1000.00, for DBE Trucking in CRCS if the full amount of trucking is unknown for sublet purposes only
- The hiring contractor may obtain the Attachment A with DBE signature included but the **Prime Contractor** must sign the Attachment A before submitting

10. Commercially Useful Function

a. Commercially Useful Function (CUF) is evaluated after the contract has been executed, while the DBE certified firm is performing contracted work items.

b. The Department uses Form DT1011, DBE Commercially Useful Function Review and Certification to evaluate if the DBE is performing a commercially useful function. WisDOT counts expenditures of a DBE toward the DBE goal only if the DBE is performing a commercially useful function on that contract.

c. A DBE firm is performing a commercially useful function if the following conditions are met:

(1) For contract work, the DBE is responsible for executing a distinct portion of the work and is carrying out its responsibilities by actually performing, managing, and supervising that work.

(2) For materials and supplies, the DBE is responsible for negotiating price, determining quality and quantity, ordering, and paying for those materials and supplies.

11. Credit Evaluation for DBE Primes

WisDOT calculates DBE credit based on the amount and type of work performed by DBE certified firms for work submitted with required documentation. If the prime contractor is a DBE certified firm, the Department will only count the work that the DBE prime performs with its own forces for DBE neutral credit. The Department will also calculate DBE credit for work performed by any other DBE certified subcontractor, DBE certified supplier, and DBE certified manufacturer on the contract in each firm's approved NAICS code/work areas that are submitted with required documentation. Crediting for manufacturers and suppliers is calculated consistent with Section 8 of this document and 49 CFR Part 26.

12. Joint Venture

If a DBE performs as a participant in a joint venture, the Department will only count the portion of the total dollar value of the contract equal to the portion of the work that the DBE performs with its own forces, for DBE credit.

13. Mentor-Protégé

a. If a DBE performs as a participant in a mentor-protégé agreement, the Department will credit the portion of the work performed by the DBE protégé firm.

b. DBE credit is evaluated and confirmed by the DBE Office for any contracts on which the mentor-protégé team identifies itself to the DBE Office as a current participant of the Mentor-Protégé Program.

c. Refer to WisDOT's Mentor-Protégé guidelines for guidance on the number of contracts and amount of DBE credit allowed on WisDOT projects.

14. Use of Joint Checks

The use of joint checks is allowable if it is a commonly recognized business practice in the material industry. A joint check is defined as a two-party check between a DBE subcontractor, a prime contractor, and the regular dealer or materials supplier who is neither the prime nor an affiliate of the prime. Typically, the prime contractor issues one check as payor to the DBE subcontractor and to the supplier jointly (to guarantee payment to the supplier) as payment for the material/supplies used by the DBE firm in cases where the DBE subcontractor and materials have been approved for DBE credit. The DBE subcontractor gains the opportunity to establish a direct

contracting relationship with the supplier to potentially facilitate a business rapport that results in a line of credit or increased partnering opportunities.

The cost of material and supplies purchased by the DBE firm is part of the value of work performed by the DBE to be counted toward the goal. To receive credit, the DBE firm must be responsible for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and "paying for the material itself." See 49 CFR 26.55(c)(1).

The approval to use joint checks constitutes a commitment to provide further information to WisDOT, upon request by staff. WisDOT will allow the use of joint checks when the following conditions are met:

a. The Prime Contractor must request permission to use joint checks from the DBE Office by submitting the Application to Use Joint Checks.
- **(1)** Request should be made when the DBE Commitment or the Request to Sublet is submitted; the request will not be considered if submitted after the DBE Subcontractor starts its work.
- **(2)** Approval/Permission must be granted prior to the issuance of any joint checks.
- **(3)** The payment schedule for the supplier must be presented to the DBE office before the first check is issued.
- **(4)** The joint check for supplies must be strictly for the cost of approved supplies.

b. The DBE subcontractor is responsible for furnishing and/or installing the material/work item and is not an ‘extra participant’ in the transaction. The DBE firm’s role in the transaction cannot be limited solely to signing the check(s) to release payment to the material supplier. At a minimum, the DBE subcontractor’s tasks should include the following:
- **(1)** The DBE subcontractor (not the prime/payor) negotiates the quantities, price, and delivery of materials.
- **(2)** The DBE subcontractor consents to sign/release the check to the supplier by signing the Application to Use Joint Checks after establishing the conditions and documentation of payment within the subcontract terms or in a separate written document.

c. The Prime contractor/payor acts solely as a guarantor.
- **(1)** The Prime Contractor agrees to furnish the check used for the payment of materials/supplies under the contract.
- **(2)** The prime contractor/payor cannot require the subcontractor to use a specific supplier or the prime contractor’s negotiated unit price.

15. Payment

Costs for conforming to this Additional Special Provision (ASP) and any associated DBE requirements are incidental to the contract.

Appendix A
Substantive Conversation Guidelines

The substantive conversation is critical to all bidders' demonstration of good faith effort to meet the DBE goal prior to bid opening. Relationship building between primes and subcontractors is crucial to DBE goal attainment. Responsible bidders seek to build rapport with potential DBE subcontractors to understand capacity, areas of expertise, and assess contracting feasibility. Bidders who compete for WisDOT contracts are specialty contractors responding to a growing and changing contract environment. Just as these specialists are responsible for care of the roads, they are likewise responsible for contributing to the health of the industry. The substantive conversation drives collaboration that will build industry health and capacity. The following is intended to provide guidance for such discussions but is not an exhaustive list. Contractors are encouraged to incorporate their existing strategies for cultivating business relationships as well.

<u>Prior to Bid Opening- this discussion should happen as early as possible (WisDOT advertisements are released 5 weeks prior to each Let)</u>

- Determine DBE subcontractor's interest in quoting
- If response indicates inexperience with quoting- offer support/assistance to the DBE in understanding the industry including fundamentals a subcontractor needs to know, required reading and/or resources.
- Assess their interest and experience in the road construction industry by asking questions such as:
  1. Have you competed for other WisDOT contracts? Ratio of competed/to wins
  2. Have you performed on any transportation industry contracts (locally or with other states)?
  3. What the largest contract you've completed?
  4. Have you worked in the industry: apprentice, journeyman, safety, inspection etc.?
  5. Does this project fit into your schedule? Are you working on any contracts now?
  6. Have you reviewed a copy of the plans? Are you comfortable performing within the scope and quantity considerations of this contract?
  7. What region do you work in? Home base?
  8. Which line items are you considering?
  9. Have you read/are you familiar with WisDOT Standard Specifications? Construction Material Manual?
  10. Do you understand where your work fits in the project schedule, project phases?

<u>Following Bid Opening- this discussion can happen at any time</u>

1. After reviewing their quote, note the following in your discussion:
   - Does the quote look complete? Irregular?
   - Are there errors in the quote? Are items very high or very low?
   - In general, does the quote look competitive?
2. Questions and Advice for the bidder to share with the potential DBE subcontractor:
   - What line items would typically be in a competitive quote for a subcontractor of their specialty?
   - How many employees and what is their role/experience/expertise in your firm?
   - Do you have resources for labor (union member, family-based, community-resourced) and capital (banking relationship, bond agent, CPA)?
   - Where have you worked: cities, states, government, commercial, residential/private sector, etc. Explain similarities or differences.
   - Refer them to reliable, trusted, industry resources that can educate or connect them to relevant resources, education/certification resources, more appropriate contract opportunities.
   - Discussion about prime contract and subcontract liability, critical path items, contract quantities, schedule risks, and potential profit/loss (for upcoming known projects or in general).
   - Discussion of bonding, insurance, and overall business risk considerations.

APPENDIX B
Sample Contractor Solicitation Letter Page 1
This sample is provided as a guide not a requirement

GFESAMPLE MEMORANDUM

TO: DBE FIRMS
FROM: POTENTIAL PRIME CONTRACTOR OR MAJOR SUBCONTRACTOR
SUBJECT: **REQUEST FOR DBE QUOTES**
LET DATE & TIME
DATE: MONTH DAY YEAR
CC: DBE OFFICE ENGINEER

Our company is considering bidding on the projects indicated on the next page, as a prime and/or a subcontractor for the Wisconsin Department of Transportation Month- date -year Letting. Page 2 lists the projects and work items that we may subcontract for this letting. We are interested in obtaining subcontractor quotes for these projects and work categories. Also note that we are willing to accept quotes in areas we may be planning to perform ourselves as required by federal rules.

Please review page 2, respond whether you plan to quote, highlight the projects and work items you are interested in performing and return it via fax or email within 3 days. Plans, specifications and addenda are available through WisDOT at the DBE Support Services office or at the Highway Construction Contract Information (HCCI) site at http://roadwaystandards.dot.wi.gov/hcci/

Your quote should include all of the costs required to complete the items you propose to perform including labor, equipment, material, and related bonding or insurance. The quote should note items that you are DBE certified to perform, tied items, and any special terms. Page 2, with the indicated projects and items you plan to quote, should be used as a cover sheet for your quote.

Please make every effort to have your quotes into our office by time deadline the prior to the letting date. ***Make sure the correct letting date, project ID and proposal number, unit price and extension are included in your quote.*** We prefer quotes be sent via SBN but prime's alternatives are acceptable. Our office hours are include hours and days.

Please call our office as soon as possible prior to the letting if you need information/clarification to prepare your quote at contact number.

If you wish to discuss or evaluate your quote in more detail, contact us after the contract is awarded. Status of the contract can be checked at WisDOT's HCCI site at http://roadwaystandards.dot.wi.gov/hcci/
All questions should be directed to:

Project Manager, John Doe, Phone:
(000) 123-4567
Email: Joe@joetheplumber.com
Fax: (000) 123- 4657

Sample Contractor Solicitation Letter Page 2

This sample is provided as a guide not a requirement

REQUEST FOR QUOTE

Prime's Name: _____

Letting Date: _____

Project ID: _____

Please check all that apply

- ☐ Yes, we will be quoting on the projects and items listed below
- ☐ No, we are not interested in quoting on the letting or its items referenced below
- ☐ Please take our name off your monthly DBE contact list
- ☐ We have questions about quoting this letting. Please have someone contact me at this number

Prime Contractor 's Contact Person:	DBE Contractor Contact Person:
Phone:	Phone:
Fax:	Fax:
Email:	Email:

Please circle the jobs and items you will be quoting below

Proposal No.	1	2	3	4	5	6	7
County							

WORK DESCRIPTION:

Clearing and Grubbing	X		X	X		X	X
Dump Truck Hauling	X		X	X		X	X
Curb & Gutter/Sidewalk, Etc.	X		X	X		X	X
Erosion Control Items	X		X	X		X	X
Signs and Posts/Markers	X		X	X		X	X
Traffic Control		X	X	X		X	X
Electrical Work/Traffic Signals		X	X	X		X	
Pavement Marking		X	X	X	X	X	X
Sawing Pavement		X	X	X	X	X	X
QMP, Base	X	X		X	X	X	X
Pipe Underdrain	X			X			
Beam Guard				X	X	X	X
Concrete Staining							X
Trees/Shrubs	X						X

Again please make every effort to have your quotes into our office by time deadline prior to the letting date.

We prefer quotes be sent via SBN but prime's preferred alternatives are acceptable.

If there are further questions please direct them to the prime contractor's contact person at phone number.

Appendix C
Small Business Network (SBN) Overview

The Small Business Network is a part of the Bid Express® service that was created to ensure that prime bidders have a centralized online location to find subs - including small and disadvantaged business enterprises (DBEs). It is available for prime bidders to use as part of their Basic Service subscription. Within the Small Business Network, **Prime Contractors** can:

1. Easily select proposals, work types and items:
    a. After adding applicable work types, select items that you wish to quote. Enter the sub-quote quantities and add comments, if desired. Adding or removing items and work types can be done quickly. If needed, you can save the sub-quote for later completion.
2. Create sub-quotes for the subcontracting community:
    a. Create sub-quotes with ease using the intuitive sub-quote creator. In seven short steps, you can rapidly create a custom sub-quote directed to all subcontractors that bid on the applicable work types. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
    b. Create a sub-quote to send to subcontractors or suppliers that lists the items in a proposal that you want quoted
    c. Create an unlimited number of sub-quotes for items you want quoted, and optionally mark them as a DBE preferred request.
    d. Add attachments to sub-quotes.
3. View sub-quote requests & responses:
    a. After logging into the Bid Express service, you can quickly review all of your sub-quote requests and all unsolicited sub-quote requests from subcontractors. To simplify the Small Business Network home screen, sub-quote requests can be hidden with one click if they are not applicable.
    b. View or receive unsolicited sub-quotes that subcontractors have posted, complete with terms, conditions and pricing.
4. View Record of Subcontractor Outreach Effort:
    a. For each sub-quote produced, a *Record of Subcontractor Outreach Effort* is generated that shows the response statistics for a particular sub-quote. If accepted by the letting agency, this report may serve as proof of a “Good Faith” effort in reaching out to the DBE community.
    b. Easily locate pre-qualified and certified small and disadvantaged businesses.
    c. Advertise to small and disadvantaged businesses more efficiently and cost effectively.
    d. Document your interactions with subs/DBEs by producing an Outreach Report (may be accepted as proof of DBE outreach at the discretion of each agency).

The Small Business Network is a part of the Bid Express® service that was created to ensure that small businesses have a centralized area to access information about upcoming projects. It can help small businesses learn more about opportunities, compete more effectively, network with other contractors and subcontractors, and win more jobs. **DBE firms can:**

1. View and reply to sub-quote requests from primes:
    a. After logging into the Bid Express service, you can quickly review all incoming sub-quote requests and all unsolicited sub-quotes created by your company. Receive notifications by selected work type. To simplify on the Small Business Network home screen, sub-quote requests can be filtered by work types relevant to your interests or hidden with one click if they are not applicable.
2. Select items when responding to sub-quote requests from primes:
    a. You have the freedom to choose and price any number of items when responding to a sub-quote request. Quantities can be modified, and per-item comments are also available.
    b. View requests for sub-quotes for work that primes have posted for projects they are bidding, add your pricing, terms, and conditions, and submit completed sub-quotes to the requesting primes. c. Add attachments to a sub-quote.
3. Create and send unsolicited sub-quotes to specific contractors:
    a. Create unsolicited sub-quotes with ease using the intuitive sub-quote creator. In eight short steps, you can rapidly create a custom sub-quote directed at any number of specific vendors of your choosing. Steps include: provide contact information and sub-quote expiration date, select letting and proposal, add work types and items, specify terms and conditions, upload attachments, and select vendors.
4. Easily select and price items for unsolicited sub-quotes:
    a. After adding applicable work types, select items that you wish to quote. The extended price calculates automatically, cutting out costly calculation errors. Comments can be provided on a per-item basis as well.
    b. Create an unsolicited sub-quote that lists the items from a proposal that you want to quote, include pricing, terms and conditions, and send it to selected prime/plan holder.
    c. Add attachments to a sub-quote.
    d. Add unsolicited work items to sub-quotes that you are responding to.
5. Easy Access to Valuable Information
    a. Receive a confirmation that your sub-quote was opened by a prime.
    b. View Bid Tab Analysis data from past bids, including the high, average and low prices of items.
    c. View important notices and publications from DOT targeted to small and disadvantaged businesses.
6. Accessing Small Business Network for WisDOT contracting opportunities
    a. If you are a contractor not yet subscribing to the Bid Express service, go to **www.bidx.com** and select “Order Bid Express.” The Small Business Network is a part of the Bid Express Basic Service.
    b. DBE firms can request a Bid Express Small Business Network Account at no cost by calling 414-438-458

APPENDIX D

Good Faith Effort Evaluation Measures *by categories referenced in DBE regulations*

Bidders must demonstrate that they took all necessary and reasonable steps to achieve the assigned DBE contract goal. For each contract, all bidders must submit documentation indicating the goal has been met or if falling short of meeting the assigned goal, must request a DBE Goal Waiver and document all efforts employed to secure DBE subcontractor participation on Form DT1202.

DBE staff analyze the bidder's documented good faith efforts to determine if action taken was sufficient to meet the goal. Sufficiency is measured contract-by-contract. WisDOT evaluates active and aggressive efforts, quality, quantity, scope, intensity, and appropriateness of the bidder's efforts as a scale of the principles of Good Faith outlined in 49 CFR Part 26, Appendix A. Additional emphasis is placed on the bidder's demonstration of timely submission of documentation and communication with DBE subcontractors, and business development initiatives undertaken to support DBE firm growth.

The following is a sample of good faith effort activities that are rated according to the accompanying rubric. Contractors are encouraged to identify additional activities that align with their business type(s).

- Personal, tailored solicitation to firms that specialize in work types planned or desired for subcontracting
- Follow up to initial solicitation via email or phone
- Substantive conversation including topics such as contract liability, critical path work items, schedule risks, and potential profit/loss
- SBN utilization including posting quotes
- Review and response to DBE quotes including provision of information about plans, specifications,and requirements as applicable
- Documentation requesting subcontractors support DBE goal by solicitation and inclusion of DBE subcontractor quotes
- Responsive and timely submission of organized documentation
- Analysis of number of DBE firms who do work types that you typically subcontract
- Analysis of number of DBE firms who reside in geographical areas where prime seeks work
- Analysis of firms who express interest in bidding/quoting including the number of firms who declined your solicitation
- Reference check of DBE subcontractor work or training (documentation of questions and response required)
- Number of different efforts undertaken to meet the assigned DBE goal as documented in accompanying Form DT1202
- Submission of all DBE quotes received matched with a variety of work to be performed by DBEs
- Number and names of DBE firms provided written advice, or referral to industry-specific business development resources
- Overall pattern of DBE utilization on all WisDOT contracts which may include contracting with municipalities
- Documentation of resources expended to meet assigned DBE goal (#of hours, staff titles, average pay rate, actions taken)
- Analysis of subcontractable work items to be completed by prime beyond prime contractor's 30%
- Risk analysis of work items that are typically in tied quotes that could be unbundled
- List of contract work items in smallest economically feasible units, identifying schedule impact
- Submission of a Gap Analysis identifying DBE skillset and/or industry needs
- Staff training in EEO and Civil Rights laws as documented in training logs
- Written Capacity Assessment completed with DBE firm documenting its ability to perform the work quoted
- DBE engagement efforts beyond simple solicitation that include a substantive discussion, initiated as early in the acquisition process as possible (*points added for each day prior to letting*)
- Outreach and marketing efforts with minority, women, and veteran-focused organizations at least 10 days prior to bid opening
- Active involvement in WisDOT's Business Development Program, TrANS training, facilitated networking efforts, workshops
- Customized teaching/training efforts for future opportunities with DBE subcontractor, contract specific and/or annually
- Introduction and reference provided for DBE subcontractor to a prime who has not previously contracted with the DBE firm
- Prime utilization of a DBE subcontractor the prime has not contracted with previously
- Written referral/recommendation to bond/insurance agents, manufacturer, supplier
- Documented efforts fostering DBE participation through administrative and/or technical assistance
- Evidence of negotiation with the DBE firm about current and future Let opportunities
- Recommendation of local and state services that support small business and access to opportunity: DOA, SBA, WEDC, WPI, etc.
- Advice on bonding, lines of credit, or insurance as required to complete the items quoted and contract requirements

GFE EVALUATION RUBRIC – PHASE 1

	Active & Aggressive Category	Quality Category	Quantity Category	Scope & Intensity Category	Timing Category	Business Develop't Efforts	Total=
Solicitation Documentation							
Selected Work Items Documentation							
Documentation of Project Information provided to Interested DBEs							
Documentation of Negotiation with Interested DBEs							
Documentation of Sound Reason for Rejecting DBEs							
Documentation of Assistance to Interested DBEs- bonding, credit, insurance, equipment, supplies/materials							
Documentation of Outreach to Minority, Women, and Community organizations and other DBE Business Development Support							
Documentation of other GFE activities							
Overall Total=							

GFE EVALUATION RATING LEGEND – PHASE 1 – Initial Review

ACTIVE & AGGRESSIVE: Demonstrated through engaged and assertive activity
QUALITY: Demonstrated through essential character of conscientious and serious activity
QUANTITY: Demonstrated through a measurable number of activities
SCOPE & INTENSITY: Demonstrated through a rigorous approach to an appropriate and purposeful range of activities
TIMING: Demonstrated through engagement efforts beyond simple solicitation, initiated early in the process
BUSINESS DEVELOPMENT INITIATIVES: Demonstrated by efforts to support business growth and health of DBEs

Rating Scale

- **Each qualifying activity is worth 5 points per Category**
  - **Pro Forma efforts= 0-50 points**
    Perfunctory effort characterized by routine or superficial activities
  - **Bona Fide= 55+ points**
    Genuine effort characterized by sincere and earnest activities

GFE EVALUATION – PHASE 2 – Team Review

DBE Office completes:

- Review of quote comparisons submitted by Prime
- Bid analysis to confirm if any bid submitted met the DBE goal
- Review average of other bidders DBE goal achievement
- Team review of combined efforts documented in Phase 1 and 2 by apparent low bidder

Excerpt from Appendix A to 49 CFR Part 26:

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)((vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

APPENDIX E
Good Faith Effort Best Practices

This list is not a set of requirements; it is a list of potential strategies

Primes

- Prime contractor open houses inviting DBE firms to see the bid "war room" or providing technical assistance.
- Participate in speed networking and mosaic exercises as arranged by DBE office.
- Host information sessions not directly associated with a bid letting.
- Participate in a formal mentor protégé or joint venture with a DBE firm.
- Participate in WisDOT advisory committees i.e. TRANSAC, or Mega Project committee meetings.
- Facilitate a small group DBE 'training session' clarifying how your firm prepares for bid letting, evaluates subcontractors, preferred qualifications, and communication methods.
- Encourage subcontractors to solicit and highlight DBE participation in their quotes to you.
- Quality of communication, not quantity creates the best results. Contractors should be thorough in communicating with DBE firms before the bid and provide any assistance requested to assure best possible bid.

DBE

- DBE firms should contact primes as soon as possible with questions regarding their quotes or bid; seven days prior is optimal.
- Continually check for contract addendums on the HCCI website through the Thursday prior to letting to stay abreast of changes.
- Review the status of contracts on the HCCI website reviewing the 'apparent low bidder' list and bid tabs at a minimum.
- Prepare a portfolio or list of related projects and prime and supplier references; be sure to note transportation related projects of similar size and scope, firm expertise and staffing.
- Participate in DBE office assessment programs.
- Participate on advisory and mega-project committees.
- Sign up to receive the DBE Contracting Update.
- Consider membership in relevant industry or contractor organizations.
- Active participation is a must. Quote as many projects as you can reasonably work on; quoting the primes and bidding as a prime with the Department are the only ways to get work.

APPENDIX F
Good Faith Effort Evaluation Guidance
Appendix A of 49 CFR Part 26

I. When, as a recipient, you establish a contract goal on a DOT-assisted contract for procuring construction, equipment, services, or any other purpose, a bidder must, in order to be responsible and/or responsive, make sufficient good faith efforts to meet the goal. The bidder can meet this requirement in either of two ways. First, the bidder can meet the goal, documenting commitments for participation by DBE firms sufficient for this purpose. Second, even if it doesn't meet the goal, the bidder can document adequate good faith efforts. This means that the bidder must show that it took all necessary and reasonable steps to achieve a DBE goal or other requirement of this part which, by their scope, intensity, and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not fully successful.

II. In any situation in which you have established a contract goal, Part 26 requires you to use the good faith efforts mechanism of this part. As a recipient, you have the responsibility to make a fair and reasonable judgment whether a bidder that did not meet the goal made adequate good faith efforts. It is important for you to consider the quality, quantity, and intensity of the different kinds of efforts that the bidder has made, based on the regulations and the guidance in this Appendix.

The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements. We emphasize, however, that your determination concerning the sufficiency of the firm's good faith efforts is a judgment call. Determinations should not be made using quantitative formulas.

III. The Department also strongly cautions you against requiring that a bidder meet a contract goal (i.e., obtain a specified amount of DBE participation) in order to be awarded a contract, even though the bidder makes an adequate good faith efforts showing. This rule specifically prohibits you from ignoring bona fide good faith efforts.

IV. The following is a list of types of actions which you should consider as part of the bidder's good faith efforts to obtain DBE participation. It is not intended to be a mandatory checklist, nor is it intended to be exclusive or exhaustive. Other factors or types of efforts may be relevant in appropriate cases.

A. (1) Conducing market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

(2) The bidder should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. The bidder should determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

B. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

C. Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract.

D. (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

(2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

E. (1) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the bidder or prime contractor to accept unreasonable quotes in order to satisfy contract goals.

(2) A prime contractor's inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

F. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.

G. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

H. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

V. In determining whether a bidder has made good faith efforts, it is essential to scrutinize its documented efforts. At a minimum, you must review the performance of other bidders in meeting the contract goal. For example, when the apparent successful bidder fails to meet the contract goal, but others meet it, you may reasonably raise the question of whether, with additional efforts, the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the goal, but meets or exceeds the average DBE participation obtained by other bidders, you may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made good faith efforts. As provided in §26.53(b)(2)((vi), you must also require the contractor to submit copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract to review whether DBE prices were substantially higher; and contact the DBEs listed on a contractor's solicitation to inquire as to whether they were contacted by the prime. Pro forma mailings to DBEs requesting bids are not alone sufficient to satisfy good faith efforts under the rule.

VI. A promise to use DBEs after contract award is not considered to be responsive to the contract solicitation or to constitute good faith efforts.

[79 FR 59600, Oct. 2, 2014]

APPENDIX G

(SAMPLE) Forms DT1506 and DT1202

COMMITMENT TO SUBCONTRACT TO DBE
ATTACHMENT A

CONFIRMATION OF PARTICIPATION

Project I.D.:	Proposal Number:
Letting Date:	

Name of DBE Firm Participating in this Contract:	
Name of the Prime/Subcontractor who hired the DBE Firm: *(list all names of tiers if more than one)*	
Type of Work or Type of Material Supplied:	
Total Subcontract Value:	Total DBE Credit Value:

FOR PRIME CONTRACTORS ONLY: I certify that I made arrangements with the participating DBE firm to perform the type of work listed or supply the material indicated above for the subcontract value listed above.	Prime Contractor Representative's Signature
	Prime Contractor Representative's Name (Print Name)
	Prime Contractor (Print Company Name)
	Date

FOR PARTICIPATING DBE FIRMS ONLY: I certify that I made arrangements with the Prime Contractor or the Hiring Contractor to perform the type of work or supply the material indicated above for the subcontract value listed above. **FOR DBE TRUCKING FIRMS ONLY:** I certify that I will utilize, for DBE credit, only trucks listed on my WisDOT approved Schedule of Owned/Leased Vehicles for DBE Credit form and I will be utilizing the number of trucks as listed below.	Participating DBE Firm Representative's Signature & Date
	Participating DBE Firm Representative's Name (Print Name)
	Participating DBE Firm (Print Company Name)
	DBE Firm's Address:

# Owned Trucks	# Leased Trucks	# DBE-Owned Leased Trucks	# Non-DBE-Owned Leased Trucks

Official Form DT1506 can be found here: www.wisconsindot.gov/DBEcontracting

DOCUMENTATION·OF·GOOD·FAITH·EFFORT·

Wisconsin·Department·of·Transportation
DT1202·····3/2020

Project·ID	Proposal·No.	Letting
·····	·····	·····
Prime·Contractor		County
·····		·····
Person·Submitting·Document		Telephone·Number
·····		·····
Address		Email·Address
·····		·····

All·bidders·must·undertake·necessary·and·reasonable·steps·to·achieve·the·assigned·DBE·contract·goal·per·federal·regulatory·guidance·at·49·CFR·Part·26.·Bidders·use·this·form·to·document·all·efforts·employed·to·meet·the·assigned·goal·as·a·record·of·contractor·good·faith·efforts·(GFE).·Refer·to·ASP3·or·49·CFR·Part·26·for·guidance·on·actions·that·demonstrate·good·faith·effort.·

It·is·critical·to·list·all·efforts,·attach·documentation,·and·follow·the·instructions·to·complete·this·submission.·Documentation·of·good·faith·effort·includes·copies·of·each·DBE·and·non-DBE·subcontractor·quote·submitted·to·the·bidder·for·the·same·line·items.·Utilize·the·sample·documentation·logs·to·document·and·organize·efforts.··

Submit·good·faith·effort·documentation·per·ASP-3·guidelines.

Instructions:·Provide·a·narrative·description·of·all·activities·pursued·to·demonstrate·good·faith·efforts,·any·corresponding·documentation,·and·applicable·explanation·on·separate·pages.·Include·the·following·items,·organized·in·the·order·listed·below.

1.→ **Solicitation·Documentation:**·
   - **a.→ Purpose:**·To·identify·all·reasonable·and·available·activities·the·bidder·performed·to·solicit·the·interest·of·all·certified·DBEs·who·have·the·capacity·and·ability·to·perform·work·on·the·project.·All·solicitation·efforts·should·begin·as·early·as·possible·to·ensure·DBEs·have·ample·time·to·respond·and·ask·questions.

   - **b.→ Action:**·Identify·and·list·all·activities·engaged·in·to·solicit·DBEs·using·all·reasonable·and·available·means·such·as·written·notice·and·follow-up·communications;·substantive·conversations;·pre-bid·meetings;·networking·events;·market·research;·advertising.

2.→ **Selected·Work·Items·Documentation:**·
   - **a.→ Purpose:**·To·ensure·that·all·work·items·are·broken·out·into·economically·feasible·units·to·facilitate·DBE·participation.·This·must·occur·even·when·you·prefer·to·perform·the·work·yourself.

   - **b.→ Action:**·Identify·economically·feasible·work·units·to·be·performed·by·DBEs·to·include·activities·such·as:·list·of·work·items·to·be·performed;·breaking·up·of·large·work·items·into·smaller·tasks·or·quantities;·flexible·time·frames·for·performance·and·delivery·schedules.

3.→ **Documentation·of·Project·Information·provided·to·Interested·DBEs:**·
   - **a.→ Purpose:**·To·provide·interested·DBEs·with·adequate·information·about·the·plans,·specifications,·and·any·other·contractual·requirements·in·a·timely·manner·to·assist·DBEs·in·response·to·solicitation.

   - **b.→ Action:**·Provide·DBEs·access·to·plans,·specifications,·and·other·contract·requirements.·Early·solicitation·allows·ample·opportunity·to·provide·project·information,·links·to·Let·advertisements,·and·substantive·engagement·with·DBEs.

4. **Documentation of Negotiation with Interested DBEs:**
   a. **Purpose:** To ensure that negotiations with interested DBEs were made in good faith providing evidence as to why agreements could not be reached for DBEs to perform work.

   b. **Action:** Provide sufficient evidence to demonstrate that good faith negotiations took place. Merely sending out solicitations requesting bids from DBEs does not constitute sufficient good faith efforts. A bidder using good business judgment considers a number of factors in negotiating with all subcontractors, and the firm's price and capabilities in addition to contract goals are taken into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failing to meet the DBE goal as long as costs are reasonable. (see 49 CFR Part 26 Appendix A)

5. **Documentation of Sound Reason for Rejecting DBEs:**
   a. **Purpose:** To ensure that bidders avoid rejecting DBEs as unqualified without sound reasons. Reasons for rejection must be based on thorough investigation of DBE capabilities.

   b. **Action:** Provide sufficient evidence to demonstrate that DBE was rejected for sound reasons such as past performance, relevant business experience and stability, safety record, business ethic and integrity, technical capacity, other tangible factors.

6. **Documentation of Assistance to Interested DBEs - Bonding, Credit, Insurance, Equipment, Supplies/Materials:**
   a. **Purpose:** To assist interested DBEs in obtaining bonds, lines of credit, insurance, equipment, supplies, materials, and other assistance or services.

   b. **Action:** Assist interested DBEs in obtaining bonding, lines of credit or insurance, and provide technical assistance or information related to plans, specifications, and project requirements. Assist DBEs in obtaining equipment, supplies, materials or other services related to meeting project requirements (excluding supplies or equipment the DBE purchases from the prime).

7. **Documentation of outreach to Minority, Women, and Community Organizations and other DBE Business Development Support:**
   a. **Purpose:** To effectively use the services of minority, women, and community organizations as well as contractors' groups, local, state, and federal business assistance offices and organization that provide assistance in recruiting and supporting DBEs, as well as participation in activities that support DBE business development.

   b. **Action:** Contact organizations and agencies for assistance in contacting, recruiting, and providing support to DBE subcontractors, suppliers, manufacturers, and truckers at least 14 days before bid opening. Participate in or host activities such as networking events, mentor-protégé programs, small business development workshops, and others consistent with DBE support.

Return to:
Wisconsin Department of Transportation
DBE Program Office
PO Box 7965
Madison, WI 53707-7965
DBE_Alert@dot.wi.gov

I certify that I have utilized comprehensive good faith efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses and as specified in Additional Special Provision 3 (ASP-3).

I certify that the information given in the Documentation of Good Faith Efforts is true and correct to the best of my knowledge and belief.

I further understand that any willful falsification, fraudulent statement, or misrepresentation will result in appropriate sanctions, which may involve debarment and/or prosecution under applicable state (Trans 504) and Federal laws.

		(Bidder/Authorized Representative Signature)
		*****
		(Print Name)
		*****
		(Title)

Good Faith Effort -- Sample Documentation Logs

The sample logs below are provided as guides rather than exhaustive list. See ASP3, Appendix A for additional examples of demonstrable good faith efforts. Attach documentation for each activity listed.

Acceptable forms of documentation include copies of solicitations sent to DBEs, notes from substantive conversations and negotiations with DBEs, copies of advertisements placed, email communications, all quotes received from DBEs and from all subcontractors who were considered alongside DBE quotes, proof of attendance at applicable networking events; flyers for events or workshops for DBEs offered by the prime, and other physical records of good faith efforts activities.

SOLICITATION LOG

Date	Activity	Name of DBE Solicited	Follow-up
4/1/2020	Sent May Let solicitation	Winterland Electric	Spoke with Mark Winterland on 4/15/20 to ask if he would quote

SELECTED WORK ITEMS SOLICITED LOG

Work Type	DBE Firm	Contact Person	Date	Contact Mode
Pavement Marking	ABC Marking	Leslie Lynch	4/1/2020	Email; phone
	#1 Marking Co.	Mark Smart	4/1/2020	Email; left VM
Electrical	Winterland Electric	Tabitha Tinker	4/3/2020	Email, left VM
	Superstar Wiring	Jose Huascar	4/3/2020	Email; phone

INFORMATION PROVIDED LOG

Request Date	DBE Firm	Information Requested & Provided	Response Date
4/1/2020	Winterland Electric	Requested info on electrical requirements; provided plan and link to specs	4/3/2020
4/21/2020	Absolute Construction	Wanted to know how and when supplies are paid for by WisDOT; referred to spec that covers stockpiling	4/21/2020

NEGOTIATIONS LOG

Date	DBE Firm	Contact Name	Work Type	Quotes Rec'd?	Considered for project?	If not selected, why?
4/12/2020	ABC Landscape	John Dean	Erosion Control	Yes	No	Cannot perform all items
4/17/2020	Wild Ferns	Sandy Lynn	Erosion Control	Yes	Yes	
4/20/2020	#1 Marking	Mark Smart	Electrical	Yes	Yes	

ASSISTANCE LOG

Date	DBE Firm	Contact Person	Assistance Provided
4/1/2020	ABC Sawing	Jackie Swiggle	Informed DBE on how to obtain bonding
4/17/2020	Supreme Construction	Winston Walters	Provided contact for wholesale supply purchase

OUTREACH & BUSINESS DEVELOPMENT LOG

Date	Agency/Organization Contacted	Contact Person	Assistance Requested
4/1/2020	Women in Construction	LaTonya Klein	Contact information for woman-owned suppliers
4/28/2020	WBIC	Sam Smith	Asked for information to provide to DBE regarding financing programs through WBIC

Official Form DT1202 can be found here: www.wisconsindot.gov/DBEcontracting

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.

ADDITIONAL SPECIAL PROVISIONS 5
FUEL COST ADJUSTMENT

A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

C Fuel Index

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is $3.20 per gallon.

D Computing the Fuel Cost Adjustment

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

(1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.

(2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.

(3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.

(4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left(\frac{CFI}{BFI} - 1\right) x\ Q\ x\ BFI$$

(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

E Payment

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.

Additional Special Provision 6
ASP 6 - Modifications to the standard specifications

Make the following revisions to the standard specifications:

415.3.16 Tolerance in Pavement Thickness

Replace the entire text with the following effective with the November 2021 letting:

415.3.16.1 General

(1) Construct the plan thickness or thicker. The department will accept pavement thickness based on the results of department-performed acceptance testing conforming to:

Magnetic Pulse Induction	CMM 870: ASTM E3209 WTM
Probing	CMM 870: WTP C-002
Preplacement Measurement	CMM 870: WTP C-003

415.3.16.2 Pavement Units

415.3.16.2.1 Basic Units

(1) Basic unit is defined as a slip formed, single lane, with a minimum lane width of 10 feet, measured, from the pavement edge to the adjacent longitudinal joint; from one longitudinal joint to the next; or between pavement edges if there is no longitudinal joint.

415.3.16.2.2 Special Units

(2) Establish special units for areas of fillets, intersections, gaps, gores, shoulders, ramps, pavement lanes less than 10 feet wide and other areas not included in basic units.

415.3.16.3 Test Plate Locations

(1) Place department-furnished test plates. Within 5 business days after paving, enter the sequential number and associated position data into MRS available at:

http://www.atwoodsystems.com/

(2) Contractor will maintain plate location markings for 10 business days after paving.

415.3.16.4 Acceptance Testing

415.3.16.4.1 Basic Units

415.3.16.4.1.2 Magnetic Pulse Induction

(1) The department will measure thickness within 10 business days of paving. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.

(2) Department will establish a project reference plate at the start of each paving stage. Project reference plate will be measured before each day of testing. Department will notify the contractor of project reference plate locations before testing.

(3) If the random plate test result falls within 80 to 50 percent pay range specified in 415.5.2, the department will measure the second plate in that unit. The department will notify the contractor immediately if the average of the 6 readings falls within the 80 to 50 percent pay range.

(4) If an individual random plate test result is more than 1 inch thinner than contract plan thickness, the pavement is unacceptable. Department will determine limits of unacceptable pavement by performing the following:

- The engineer will test each consecutive plate stationed ahead and behind until the thickness test result is plan thickness or greater.
- The engineer will direct the contractor to core the hardened concrete to determine the extent of the unacceptable area. In each direction, the contractor shall take cores at points approximately 20 feet from the furthest out of specification plate towards the plate that is plan thickness of greater. Once a core is within 80 to 100 percent pay range, the coring is complete and the limits of unacceptable pavement extend from the stationing between the core test results of 80 to 100 percent payment, inclusive of all unacceptable core and plate test results.
- The contractor shall perform coring according to AASHTO T24. The department will evaluate the results according to AASHTO T148
- The contractor shall fill core holes with concrete or mortar.

415.3.16.4.2 Special Units

415.3.16.4.2.1 Magnetic Pulse Induction

(1) The department will measure thickness within 10 business days of paving. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.

(2) Department will establish a project reference plate at the start of each paving stage. Project reference plate will be measured before each day of testing. Department will notify the contractor of project reference plate locations before testing.

(3) If the random plate test result falls within 80 to 50 percent pay range specified in 415.5.2, the department will measure the second plate in that unit. The department will notify the contractor immediately if the average of the 6 readings falls within the 80 to 50 percent pay range.

(4) If an individual random plate test result is more than 1 inch thinner than contract plan thickness, the department will measure the second plate in that unit. If both plates are required to be measured, then all six thickness measurements will be averaged for that unit. If the average of the six measurements is more than 1 inch thinner than contract plan thickness, the pavement is unacceptable.

415.3.16.4.2.2 Probing

(1) The department will measure slip form special units during concrete placement. Upon completion of the project thickness testing, the department will provide the test results to the contractor within 5 business days.

(2) Department will probe 2 random locations within the special unit. The average of the two readings will be the reported measurement for the special unit.

415.3.16.4.2.3 Preplacement Measurement

(1) The department will measure non-slip form special units before concrete placement.

(2) Thickness corrections will be made to a conforming thickness by reshaping the base aggregate before the pavement is placed.

415.5.2 Adjusting Pay for Thickness

Replace the entire text with the following effective with the November 2021 letting:

(1) The department will adjust pay for pavement thickness under the Nonconforming Thickness Concrete Pavement administrative item as follows:

FOR PAVEMENT THINNER THAN PLAN THICKNESS BY:	PERCENT OF THE CONTRACT UNIT PRICE
> 1/4 inch but <= 1/2 inch	80
> 1/2 inch but <= 3/4 inch	60
> 3/4 inch but <= 1 inch	50

(2) When pavement of unacceptable final thickness is determined, as specified in 415.3.16.4, the department will direct the contractor to either:

1. Remove and replace unacceptable concrete pavement to the nearest joint with new concrete pavement of conforming thickness. The department will pay once for the area at the full contract price.
2. If the unacceptable pavement is less than 100 LF, the department may allow the concrete to remain in place without payment for the unacceptable area.

460.2.6 Recovered Asphaltic Binders

Replace paragraph two with the following effective with the November 2021 letting:

(2) The contractor may replace virgin binder with recovered binder up to the maximum percentage allowed under 460.2.5 without further testing. When the design percent asphalt binder replaced exceeds the allowable limits in 460.2.5, the contractor must:

- Document adjustments made to the mix design in the mix design submittal.
- Submit test results that indicate the mixture's asphaltic binder meets or exceeds the upper and lower temperature grade requirements the bid item designates.
    - If only one recycled asphaltic material source is used, furnish one of the following:
        - Test results from extracted and recovered binder from the resultant mixture.
        - Blending charts that indicate the resultant mixture's high and low temperature PG as an interpolation of the percent binder replaced between the virgin binder's and the recycled asphaltic material source binder's high and low temperature PG.
    - If two or more recycled asphaltic material sources are used, furnish test results from extracted and

recovered binder from the resultant mixture.

501.2.6 Water

Retitle with the following effective with the November 2021 letting:

501.2.6 Mixing Water

501.2.6.2 Requirements

Replace paragraph two with the following effective with the November 2021 letting:

(2) Water from other sources must comply with the following:

Acidity, maximum of 0.1N NaOH to neutralize 200 mL of water; CMM 870: WTP C-001	2 mL
Alkalinity, maximum of 0.1N HCL to neutralize 200 mL of water; CMM 870: WTP C-001	15 mL
Maximum sulphate ($S0_4$); CMM 870: WTP C-001	0.05 percent
Maximum chloride; CMM 870: WTP C-001	0.10 percent
Maximum total solids; CMM 870: WTP C-001	
Organic	0.04 percent
Inorganic	0.15 percent

501.3.2.2.2 Supplementary Cementitious Material

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

(1) Replace 15 to 30 percent by weight of the total cementitious material content with approved SCMs for class I concrete as specified in 715.

(2) Replace a maximum of 30 percent by weight of the total cementitious material content with approved SCMs for class II and class III concrete as specified in 716.

(3) Limit Class F fly ash sources not on the APL to maximum 15 percent.

(4) Minimum SCM content may be waived by the engineer.

501.3.2.4.2 Air Entrainment

Replace paragraph two with the following effective with the November 2021 letting:

(2) Test fresh concrete air content according to AASHTO T152 or AASHTO TP118 at the contract-required frequency and as the engineer directs. Test concrete placed by pumping or belting at the point of discharge from the pump line or belt.

501.3.7.1 Slump

Replace paragraph one with the following effective with the November 2021 letting:

(1) Use a 1-inch to 4-inch slump for concrete used in structures or placed in forms, except as follows:

- Do not exceed a slump of 2 inches for grade E concrete.
- Increase slump as specified in 502.3.5.3 for concrete placed underwater.
- If BTS approves a concrete mixture using a superplasticizer, the contractor may increase slump for that mixture to a maximum of 9 inches without exceeding the maximum mix water allowed for that grade.

531.5 Payment

Replace paragraph two with the following effective with the November 2021 letting:

(2) Payment for Concrete Masonry Ancillary Structures Type NS is full compensation for providing concrete for non-standard sign structure foundations; and for anchor rod assemblies. The department will pay separately for excavating and backfilling drilled shafts under the Drilling Shafts bid items.

Replace paragraph five with the following effective with the November 2021 letting:

(5) Payment for the Foundation bid items is full compensation for providing concrete foundations; for anchor rod assemblies; for reinforcing steel; and for embedded conduit and electrical components. The department will pay separately for excavating and backfilling drilled shafts under the Drilling Shafts bid items.

642.2.2.1 General

Replace paragraph one with the following effective with the November 2021 letting:

(1) Provide each field office with two rooms, separated by an interior door with a padlock. Ensure that each room has a separate exterior door and its own air conditioner. Locate the office where a quality internet connection can be achieved. Ensure quality cell phone reception is achievable inside the field office.

701.3.1 General

Replace table 701-1 with the following effective with the November 2021 letting:

TABLE 701-1 TESTING AND CERTIFICATION STANDARDS

TEST	TEST STANDARD	MINIMUM REQUIRED CERTIFICATION (any one of the certifications listed for each test)
Random Sampling	CMM 830.9.2	Transportation Materials Sampling Technician (TMS) TMS Assistant Certified Technician (ACT-TMS) Aggregate Technician I (AGGTEC-I) AGGTEC-I Assistant Certified Technician (ACT-AGG) PCC Technician I (PCCTEC-I) PCCTEC-I Assistant Certified Technician (ACT-PCC) Grading Technician I (GRADINGTEC-I) Grading Assistant Certified Technician (ACT-GRADING)
Sampling Aggregates	AASHTO T2[1] [4]	TMS, ACT-TMS, AGGTECT-1, ACT-AGG
Percent passing the No. 200 sieve	AASHTO T11[1]	AGGTEC-I, ACT-AGG
Fine & coarse aggregate gradation	AASHTO T27[1]	
Aggregate moisture content	AASHTO T255[1]	
Fractured faces	ASTM D5821[1]	
Liquid limit	AASHTO T89	Aggregate Testing for Transportation Systems (ATTS) GRADINGTEC-I, or ACT-GRADING
Plasticity index	AASHTO T90[3]	
Sampling freshly mixed concrete	AASHTO R60	PCCTEC-1 ACT-PCC
Air content of fresh concrete	AASHTO T152[2] AASHTO TP118[5]	
Air void system of fresh concrete	AASHTO TP118[5]	
Concrete slump	AASHTO T119[2]	
Concrete temperature	ASTM C1064	
Making and curing concrete specimens	AASHTO T23	
Moist curing for concrete specimens	AASHTO M201	
Concrete compressive strength	AASHTO T22	Concrete Strength Tester (CST) CST Assistant Certified Technician (ACT-CST)
Concrete flexural strength	AASHTO T97	
Concrete surface resistivity[2]	AASHTO T358	
Voids in aggregate	AASHTO T19	PCCTEC-II
Profiling	__	PROFILER

[1] As modified in CMM 860.

[2] As modified in CMM 870.

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

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

[5] Consolidate by rodding.

710.2 Small Quantities

Replace the entire text with the following effective with the November 2021 letting:

(1) The department defines small quantities as follows:

- As specified in 715.1.1.2 for class I concrete.
- Less than 50 cubic yards of class II ancillary concrete placed under a single bid item.

(2) For contracts with only small quantities of material subject to testing, modify the requirements of 710 as follows:

1. The contractor may submit an abbreviated quality control plan as allowed in 701.1.2.3.
2. Provide one of the following for aggregate process control:
    - Documented previous testing dated within 120 calendar days. Provide gradation test results to the engineer before placing material.
    - Non-random start-up gradation testing.

710.4 Concrete Mixes

Replace paragraph two with the following effective with the November 2021 letting:

(2) At least 7 business days before producing concrete, document that materials conform to 501 unless the engineer allows or individual QMP specifications provide otherwise. Include the following:

1. For mixes: quantities per cubic yard expressed as SSD weights and net water, water to cementitious material ratio, air content, and SAM number.
2. For cementitious materials and admixtures: type, brand, and source.
3. For aggregates: absorption, SSD bulk specific gravity, wear, soundness, freeze thaw test results if required, and air correction factor. Also include aggregate production records dated within 2 years if using those results in the design. Submit component aggregate gradations, aggregate proportions, and target combined blended aggregate gradations using the following:
    - DT2220 for combined aggregate gradations.
    - DT2221 for optimized aggregate gradations.
4. For optimized concrete mixtures:
    - Complete the worksheets within DT2221 according to the directions.
    - Ensure the optimized aggregate gradations and the optimized mix design conform to WisDOT specifications and pass the built-in tests within DT2221.
    - Verify slip-form mixture workability according to AASHTO TP137 and conformance to specifications through required trial batching.
    - Submit the completed DT2221 to the engineer electronically. Include the trial batch test results with the mix design submittal.

Replace paragraph four with the following effective with the November 2021 letting:

(4) Prepare and submit modifications to a concrete mix to the engineer for approval 3 business days before using that modified mix. Modifications requiring the engineer's approval include changes in:

1. Source of any material. For paving and barrier mixes, a source change for fly ash of the same class does not constitute a mix design change.
2. Quantities of cementitious materials.
3. Addition or deletion of admixtures. Minor admixture dosage adjustments required to maintain air content or slump do not require engineer review or approval.

710.5.5 Strength

Replace paragraph one with the following effective with the November 2021 letting:

(1) Cast all 6" x 12" cylinders or all 6" x 6" x 21" beams in a set from the same sample. Do not cast more than one set of specimens from a single truckload of concrete. Mark each specimen to identify the lot and sublot or location on the project it represents.

710.5.6 Aggregate Testing

Retitle and replace the entire text with the following effective with the November 2021 letting:

710.5.6 Aggregate Testing During Concrete Production

710.5.6.1 General

(1) The department will accept gradation based on the results of department-performed acceptance testing.

(2) The department and contractor will obtain samples using the same method. When belt sampling, contractor personnel shall obtain samples for the department under the direct observation of the department personnel. Contractor will define sampling method in the QMP or abbreviated QMP.

710.5.6.2 Contractor Control Charts

710.5.6.2.1 General

(1) Test aggregate gradations during concrete production except as allowed for small quantities under 710.2. Required contractor testing will be performed using non-random samples.

(2) Sample aggregates from either the conveyor belt or from the working face of the stockpiles.

(3) Sample aggregates within 2 business days before placement for each mix design. Include this gradation on the control charts.

(4) Report gradation test results and provide control charts to the engineer within 1 business day of obtaining the sample. Submit results to the engineer and electronically into MRS as specified in 701.1.2.7.

(5) Conduct aggregate testing at the minimum frequency shown based on the anticipated daily cumulative plant production for each mix design. The contractor's concrete production tests can be used for the same mix design on multiple contracts.

TABLE 710-1 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS I

DAILY PLANT PRODUCTION RATE FOR WisDOT WORK	MINIMUM FREQUENCY
Gradation Report Before Placement	
1000 cubic yards or less	one test per day
more than 1000 cubic yards	two tests per day

TABLE 710-2 CONTRACTOR GRADATION TESTING FREQUENCY - CLASS II

MINIMUM FREQUENCY
Gradation Report Before Placement
One test per calendar week of production

710.5.6.2.2 Optimized Aggregate Gradation Control Charts

(1) Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the following:

- 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.
- Sum of volumetric percentages retained on No. 8, No. 16, and No. 30 sieves.
- Sum of volumetric percentages retained on No. 30, No. 50, No. 100, and No. 200 sieves.

(2) Calculate blended aggregate gradations using the mix design batch percentages for the component aggregates. Ensure the blended aggregate gradation conforms to the volumetric percent retained of the optimized aggregate gradation limits specified in table 501-4.

(3) Throughout the contract, construct a 4-point running average of the volumetric percent retained for each sieve to determine if the blended aggregate gradation is within the tarantula curve limits specified in table 501-4.

710.5.6.2.3 Combined Aggregate Gradation Control Charts

(1) Determine the complete gradation using a washed analysis for both fine and coarse aggregates. Report results for the 1 1/2", 1", 3/4", 1/2", 3/8", #4, #8, #16, #30, #50, #100, and #200 sieves.

(2) Calculate blended aggregate gradations using the mix design batch percentages for the component aggregates. Ensure the blended aggregate gradation conforms to the percent passing by weight requirements of the combined aggregate gradation limits specified in table 501-4.

(3) Throughout the contract, construct a 4-point running average of the percent passing by weight for each sieve to determine if the blended aggregate gradation is within the combined aggregate gradation limits specified in table 501-4.

710.5.6.3 Department Acceptance Testing

(1) Department testing frequency is based on the quantity of each mix design placed under each individual WisDOT contract.

(2) The department will split each sample, test for acceptance, and retain the remainder for a minimum of 10 calendar days.

(3) The department will obtain the sample and deliver to regional testing lab in the same day. Department will report gradation test results to the contractor within 1 business day of being delivered to the lab. Department and contractor can agree to an alternative test result reporting timeframe; alternative timeframe is required to be documented in the QMP.

(4) Additional samples may be taken at the engineer's discretion due to change in condition.

TABLE 710-3 DEPARTMENT GRADATION TESTING FREQUENCY

CONCRETE CLASSIFICATION	MINIMUM DEPARTMENT FREQUENCY
Class I: Pavement	1 test per placement day for first 5 days of placement. If all samples are passing, reduced frequency is applied.
	Reduced frequency: 1 test per calendar week of placement
Class I: Structures	1 test per 250 CY placed - Minimum of 1 test per substructure - Minimum of 1 test per superstructure
Class I: Cast-in-Place Barrier	1 test per 500 CY placed
Class II	No minimum testing

710.5.7 Corrective Action

Replace the entire text with the following effective with the November 2021 letting:

710.5.7.1 Optimized Aggregate Gradations

(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, do the following:

1. Notify the other party immediately.
2. Perform corrective action documented in the QC plan or as the engineer approves.
3. Document and provide corrective action results to the engineer as soon as they are available.
4. Department will conduct two tests within the next business day after corrective action is complete.
5. If blended aggregate gradations are within the tarantula curve limits by the second department test:
   - Continue with concrete production.
   - Contractor will include a break in the 4-point running average.
   - For Class I: Pavements, 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.
6. If blended aggregate gradations are not within the tarantula curve limits by the second department test:
   - Provide a new mix design with an increased cementitious content.
   - If the mix design already has a cementitious content of 565 or more pounds per cubic yard, provide a new mix design.
   - If the contract requires optimized aggregate gradations under 501.2.7.4.2.1(2), stop concrete production and submit a new mix design.

(2) If the contractor's 4-point running average or a department test result of the volumetric percent retained exceeds the tarantula curve limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a new mix design.

(3) Department and contractor will sample and test aggregate of the new mix design at the frequency defined in 710.5.6.1.

710.5.7.2 Combined Aggregate Gradations

(1) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by less than or equal to 1.0 percent on a single sieve size, do the following:

1. Notify the other party immediately.
2. Perform corrective action documented in the QC plan or as the engineer approves.
3. Document and provide corrective action results to the engineer as soon as they are available.
4. Department will conduct two tests within the next business day after corrective action is complete.
5. If blended aggregate gradations are within the combined aggregate gradation limits by the second department test:
   - Continue with concrete production.
   - Contractor will include a break in the 4-point running average.

- For Class I: Pavements, 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.

6. If blended aggregate gradations are not within the combined aggregate gradation limits by the second department test, stop concrete production and submit a new mix design.

(2) If the contractor's 4-point running average or a department test result of the percent passing by weight exceeds the combined aggregate gradation limits by more than 1.0 percent on one or more sieves, stop concrete production and submit a new mix design.

(3) Department and contractor will sample and test aggregate of the new mix design at the frequency defined in 710.5.6.1.

715.3.1.1 General

Replace paragraphs three and four with the following effective with the November 2021 letting:

(3) Cast a set of 3 additional 6"x12" cylinders and test the concrete surface resistivity according to AASHTO T358. Perform this testing at least once per lot if total contract quantities are greater than or equal to the following:

- 20,000 square yards for pavements.
- 5,000 linear feet for barriers.
- 500 cubic yards for structure concrete.

Submit the resistivity to the nearest tenth into MRS for information only. Resistivity testing is not required for the following:

- Lot with less than 3 sublots.
- Concrete items classified as ancillary.
- Concrete placed under the following bid items:
  - Concrete Pavement Approach Slab
  - Concrete Masonry Culverts
  - Concrete Masonry Retaining Walls

(4) Test the air void system at least once per lot and enter the SAM number in MRS for information only. SAM testing is not required for the following:

- For lots with less than 3 sublots.
- High early strength (HES) concrete.
- Special high early strength (SHES) concrete.
- Concrete placed under the following bid items:
  - Concrete Pavement Approach Slab
  - Concrete Masonry Culverts
  - Concrete Masonry Retaining Walls
  - Steel Grid Floor Concrete Filled
  - Crash Cushions Permanent
  - Crash Cushions Permanent Low Maintenance
  - Crash Cushions Temporary

715.3.1.2.3 Lots by Cubic Yard

Replace the entire text with the following effective with the November 2021 letting:

(1) Define standard lots and sublots conforming to the following:

TABLE 715-1 CLASS I - LOT AND SUBLOT SIZES

CONCRETE CLASSIFICATION	LOT SIZE	SUBLOT SIZE	NUMBER OF SUBLOTS PER LOT
Class I: Pavement	1250 cubic yards	250 cubic yards	5
Class I: Structures	250 cubic yards	50 cubic yards	5
Class I: Cast-in-Place Barrier	500 cubic yards	100 cubic yards	5

(2) The contractor may include sublots less than or equal to 25 percent of the standard volume in the previous sublot. For partial sublots exceeding 25 percent of the standard volume, notify the engineer who will direct additional testing to represent that partial sublot.

(3) An undersized lot is eligible for incentive payment under 715.5 if the lot has 3 or more sublots for that lot.

715.3.2 Strength Evaluation

Replace the entire text with the following effective with the November 2021 letting:

715.3.2.1 General

(1) The department will make pay adjustments for strength on a lot-by-lot basis using the compressive strength of contractor QC cylinders or the flexural strength of contractor QC beams.

(2) Randomly select 2 QC specimens to test at 28 days for percent within limits (PWL). Compare the strengths of the 2 randomly selected QC specimens and determine the 28-day sublot average strength as follows:

- If the lower strength divided by the higher strength is 0.9 or more, average the 2 QC specimens.
- If the lower strength divided by the higher strength is less than 0.9, break one additional specimen and average the 2 higher strength specimens.

715.3.2.2 Removal and Replacement

715.3.2.2.1 Pavement

(1) If a sublot strength is less than 2500 psi in compressive strength or 500 psi in flexural strength, the department may direct the contractor to core that sublot to determine its structural adequacy and whether to direct removal.

(2) If the engineer directs coring, obtain three cores from the sublot in question. Have an HTCP-certified PCC technician I perform or observe core sampling according to AASHTO T24.

(3) Have an independent consultant test cores according to AASHTO T24.

(4) The department will assess concrete for removal and replacement based on a sublot-by-sublot analysis of core strength. Perform coring and testing, fill core holes with an engineer-approved non-shrink grout or concrete, and provide traffic control during coring.

(5) The sublot pavement is conforming if the compressive strengths of all cores from the sublot are 2500 psi or greater.

(6) The sublot pavement is nonconforming if the compressive strengths of any core from the sublot is less than 2500 psi. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

715.3.2.2.2 Structures and Cast-in-Place Barrier

(1) The department will evaluate the sublot for possible removal and replacement if the 28-day sublot average compressive strength is lower than f'c minus 500 psi. The value of f'c is the design stress the plans show. The department may assess further strength price reductions or require removal and replacement only after coring the sublot.

(2) The engineer may initially evaluate the sublot strength using a non-destructive method. Based on the results of non-destructive testing, the department may accept the sublot at the previously determined pay for the lot, or direct the contractor to core the sublot.

(3) If the engineer directs coring, obtain three cores from the sublot in question. Have an HTCP-certified PCC technician I perform or observe core sampling according to AASHTO T24. Determine core locations, subject to the engineer's approval, that do not interfere with structural steel.

(4) Have an independent consultant test cores according to AASHTO T24.

(5) The department will assess concrete for removal and replacement based on a sublot-by-sublot analysis of core strength. Perform coring and testing, fill core holes with an engineer-approved non-shrink grout or concrete, and provide traffic control during coring.

(6) If the 3-core average is greater than or equal to 85 percent of f'c, and no individual core is less than 75 percent of f'c, the engineer will accept the sublot at the previously determined pay for the lot. If the 3-core average is less than 85 percent of f'c, or an individual core is less than 75 percent of f'c, the engineer may require the contractor to remove and replace the sublot. The department may direct removal and replacement or otherwise determine the final disposition of nonconforming material as specified in 106.5.

715.3.3 Aggregate

Replace the entire text with the following effective with the November 2021 letting:

715.3.3.1 General

(1) Except as allowed for small quantities in 710.2, test aggregate conforming to 710.5.6.

715.3.3.2 Structures

(1) In addition to the aggregate testing required under 710.5.6, determine the fine and coarse aggregate moisture content for each sample.

(2) Calculate target batch weights for each mix when production of that mix begins. Whenever the moisture content of the fine or coarse aggregate changes by more than 0.5 percent, adjust the batch weights to maintain the design w/cm ratio.

716.2.1 Class II Concrete

Replace paragraph two with the following effective with the May 2022 letting:

(2) Perform random QC testing at the following frequencies:

1. Test air content, temperature, and slump a minimum of once per 100 cubic yards for each mix design and placement method.
2. Cast one set of 2 cylinders per 200 cubic yards for each mix design and placement method. Cast a minimum of one set of 2 cylinders per contract for each mix design and placement method. Random 28-day compressive strength cylinders are not required for HES or SHES concrete.
3. For deck overlays, perform tests and cast cylinders once per 50 cubic yards of grade E concrete placed.
4. For concrete base, one set of tests and one set of cylinders per 250 cubic yards.

The department will allow concrete startup test results for quantities under 50 cubic yards. Cast one set of 2 cylinders if using startup testing for acceptance.

ERRATA

460.2.2.3 Aggregate Gradation Master Range

Correct errata by adding US Standard equivalent sieve sizes.

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

TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS

SIEVE	PERCENT PASSING DESIGNATED SIEVES							
	NOMINAL SIZE							
	No. 1 (37.5 mm) (1 1/2 inch)	No. 2 (25.0 mm) (1 inch)	No.3 (19.0 mm) (3/4 inch)	No. 4 (12.5 mm) (1/2 inch)	No. 5 (9.5 mm) (3/8 inch)	No. 6 (4.75 mm) (3/16 inch)	SMA No. 4 (12.5 mm) (1/2 inch)	SMA No. 5 (9.5 mm) (3/8 inch)
50.0-mm (2-inch)	100							
37.5-mm (1 1/2-inch)	90 - 100	100						
25.0-mm (1-inch)	90 max	90 - 100	100					
19.0-mm (3/4-inch)	___	90 max	90 - 100	100			100	
12.5-mm (1/2-inch)	___	___	90 max	90 - 100	100		90 - 97	100
9.5-mm (3/8-inch)	___	___	___	90 max	90 - 100	100	58 - 80	90 - 100
4.75-mm (No. 4)	___	___	___	___	90 max	90 - 100	25 - 35	35 - 45
2.36-mm (No. 8)	15 - 41	19 - 45	23 - 49	28 - 58	32 - 67	90 max	15 - 25	18 - 28
1.18-mm (No. 16)	___	___	___	___	___	30 - 55	___	___
0.60-mm (No. 30)	___	___	___	___	___	___	18 max	18 max
0.075-mm (No. 200)	0 - 6.0	1.0 - 7.0	2.0 - 8.0	2.0 - 10.0	2.0 - 10.0	6.0 - 13.0	8.0 - 11.0	8.0 - 12.0
% VMA	11.0 min	12.0 min	13.0 min	14.0 min[1]	15.0 min[2]	16.0 - 17.5	16.0 min	17.0 min

[1] 14.5 for LT and MT mixes.

[2] 15.5 for LT and MT mixes.

715.5.1 General

Correct the bid item number for Incentive Compressive Strength Concrete Pavement.

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

ITEM NUMBER	DESCRIPTION	UNIT
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

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

Effective January 2019 Letting ASP 9

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

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Nonsegregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Compliance with Governmentwide Suspension and Debarment Requirements
XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant 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 first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant 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 or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) 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;

(3) 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 offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction 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 or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

h. 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 participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant 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 or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

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).

SEPTEMBER 2002

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Employment Practices" and "Equal Opportunity Clause" set forth in the Required Contract Provisions, FHWA 1273.

2. The goals and timetables for minority and female participation expressed in percentage terms for the contractor's aggregate work force in each trade, on all construction work in the covered area, are as follows:

Goals for Minority Participation for Each Trade:

County	%	County	%	County	%
Adams	1.7	Iowa	1.7	Polk	2.2
Ashland	1.2	Iron	1.2	Portage	0.6
Barron	0.6	Jackson	0.6	Price	0.6
Bayfield	1.2	Jefferson	7.0	Racine	8.4
Brown	1.3	Juneau	0.6	Richland	1.7
Buffalo	0.6	Kenosha	3.0	Rock	3.1
Burnett	2.2	Kewaunee	1.0	Rusk	0.6
Calumet	0.9	La Crosse	0.9	St. Croix	2.9
Chippewa	0.5	Lafayette	0.5	Sauk	1.7
Clark	0.6	Langlade	0.6	Sawyer	0.6
Columbia	1.7	Lincoln	0.6	Shawano	1.0
Crawford	0.5	Manitowoc	1.0	Sheboygan	7.0
Dane	2.2	Marathon	0.6	Taylor	0.6
Dodge	7.0	Marinette	1.0	Trempealeau	0.6
Door	1.0	Marquette	1.7	Vernon	0.6
Douglas	1.0	Menominee	1.0	Vilas	0.6
Dunn	0.6	Milwaukee	8.0	Walworth	7.0
Eau Claire	0.5	Monroe	0.6	Washburn	0.6
Florence	1.0	Oconto	1.0	Washington	8.0
Fond du Lac	1.0	Oneida	0.6	Waukesha	8.0
Forest	1.0	Outagamie	0.9	Waupaca	1.0
Grant	0.5	Ozaukee	8.0	Waushara	1.0
Green	1.7	Pepin	0.6	Winnebago	0.9
Green Lake	1.0	Pierce	2.2	Wood	0.6

Goals for female participation for each trade: 6.9%

These goals are applicable to all the contractor's construction work, (whether or not it is federal or federally assisted), performed in the covered area. If the contractor performs construction work in the geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The contractor's compliance with the Executive Order and the Regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the Regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

   As referred to in this section, the Director means:

   Director
   Office of Federal Contract Compliance Programs
   Ruess Federal Plaza
   310 W. Wisconsin Ave., Suite 1115
   Milwaukee, WI 53202

   The "Employer Identification Number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

4. As used in this notice, and in the contract resulting from solicitation, the "covered area" is the county(ies) in Wisconsin to which this proposal applies.

APRIL 2013

ADDITIONAL FEDERAL-AID PROVISIONS

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., Eastern Time. Anyone with knowledge of possible bid rigging, bidding collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

Effective November 2020 letting

BUY AMERICA PROVISION

All steel and iron materials permanently incorporated in this project shall be domestic products and all manufacturing and coating processes for these materials from smelting forward in the manufacturing process must have occurred within the United States. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to the requirements of Buy America. The exemption of this requirement is the minimal use of foreign materials if the total cost of such material permanently incorporated in the product does not exceed one-tenth of one percent (1/10 of 1%) of the total contract cost or $2,500.00, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the subject products as they are delivered to the project. The contractor shall take actions and provide documentation conforming to CMM 2-28.5 to ensure compliance with this “Buy America” provision.

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

Upon completion of the project certify to the engineer, in writing using department form DT4567, that all steel, iron, and coating processes for steel or iron incorporated into the contract work conform to these "Buy America" provisions. Attach a list of exemptions and their associated costs to the certification form. Department form DT4567 is available at:

https://wisconsindot.gov/Documents/formdocs/dt4567.docx

Effective February 2016 letting

Cargo Preference Act Requirement

All Federal-aid projects shall comply with 46 CFR 381.7 (a) – (b) as follows:

(a) *Agreement Clauses.* "Use of United States-flag vessels:"

(1) Pursuant to Pub. L. 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) *Contractor and Subcontractor Clauses.* "Use of United States-flag vessels: The contractor agrees—"

(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.

Effective with December 2017 Letting

WISCONSIN DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION AND SYSTEM DEVELOPMENT

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS FOR PROJECTS WITH FEDERAL AID

I. PREVAILING WAGE RATES

The attached U.S. Department of Labor (Davis-Bacon Minimum Wage Rates) furnishes the minimum prevailing wage rates pursuant to the Davis-Bacon and Related Acts. The wage rates shown are the minimum rates required by the contract to be paid during its life, however this is not a representation that labor can be obtained at these rates. It is the responsibility of bidders to inform themselves as to the local labor conditions and prospective changes or adjustments of wage rates. No increase in the contract price will be allowed or authorized on account of the payment of wage rates in excess of those listed herein.

II. COVERAGE OF TRUCK DRIVERS

Truck drivers are covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Drivers of a contractor or subcontractor for time spent working on the site of the work.
- Drivers of a contractor or subcontractor for time spent loading and/or unloading materials and supplies on the site of the work, if such time is not de minimis. https://www.dol.gov/whd/FOH/FOH_Ch15.pdf
- Truck drivers transporting materials or supplies between a facility that is deemed part of the site of the work and the actual construction site.
- Truck drivers transporting portions of the building or work between a site established specifically for the performance of the contract where a significant portion of such building or work is constructed and the physical place where the building or work called for in the contract will remain.

Truck drivers are not covered by Davis-Bacon Minimum Wage Rates in the following circumstances:

- Material delivery truck drivers while off the site of the work.
- Drivers of a contractor or subcontractor traveling between a Davis-Bacon job and a commercial supply facility while they are off the site of the work."
- Truck drivers whose time spent on the site of the work is de minimis, such as only a few minutes at a time merely to pick up or drop off materials or supplies.

Details are available online at:
https://www.dol.gov/whd/recovery/pwrb/Tab9.pdf
https://wisconsindot.gov/Pages/doing-bus/civil-rights/labornwage/trckng.aspx

III. POSTINGS AT THE SITE OF THE WORK

In addition to the required postings furnished by the department, the contractor shall post the following in at least one conspicuous and accessible place at the site of work:

a. A copy of the contractor's Equal Employment Opportunity Policy.

All required documents shall be posted by the first day of work and be accurate and complete. Postings must be readable, in an area where they will be noticed, and maintained until the last day of work.

IV. RESOURCES

Required information regarding compliance with federal provisions is found in the following resources:

- FHWA-1273 included in this contract
- U.S. Department of Labor Prevailing Wage Resource Book
- U.S. Department of Labor Field Operations Handbook
- U.S. Code of Federal Regulations
- Any applicable law, Act, or Executive Order enacted by the federal government at the time of the letting of this contract

August 2018

NOTICE TO BIDDERS
WAGE RATE DECISION

The wage rate decision of the Department of Labor which has been incorporated in these advertised specifications is incomplete in that the classifications may be omitted from the Department of Labor's decision.

Since the bidder is responsible, independently, for ascertaining area practice with respect to the necessity, or lack of necessity, for the use of these classifications in the prosecution of the work contemplated by this project, no inference may be drawn from the omission of these classifications concerning prevailing area practices relative to their use. Further, this omission will not, per se, be construed as establishing any governmental liability for increased labor cost if it is subsequently determined that such classifications are required.

There may be omissions and/or errors in the federal wage rates. The bidder is responsible for evaluating and determining the correct applicable rate.

If a project includes multiple types of construction (highway, bridge over navigable water, sanitary sewer and water main, building) and there is not a separate wage determination for this type of work included in the proposal, use the wage determination that is in the proposal.

If a project includes multiple types of construction, different wage rate determinations may be inserted into the contract (WI10/Highway = in all WisDOT highway contracts, WI15/Heavy = bridge over navigable water per USDOL and US Coast Guard designation, WI8/Heavy (Sewer & Water Line & Tunnel) = sanitary sewer and water main if the cost is more than 20% of the contract and/or at least $1,000,000, and Building). If multiple wage rate determinations are inserted into the contract, use the classification in the wage determination for the work being done. Use WI15 wage rates when working on the bridge and/or structure from bank to bank. Use WI8 wage rates when working on any sanitary sewer or water main work. Use Building wage rates for all work done within the footprint of the building. Use WI10 wage rates for all other highway work in the contract and approaches to structures. For example, if a laborer is working within the footprint of a building, use the Laborer rate in the Building wage determination inserted in the contract. If a laborer is working on a bridge/structure within the banks, use the Laborer rate in the WI15/Heavy wage determination if inserted in the contract. If the laborer is working on the highway, use the Laborer rate in the WI10/Highway wage determination.

"General Decision Number: WI20220010 05/13/2022

Superseded General Decision Number: WI20210010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022

1	01/21/2022
2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	05/13/2022

BRWI0001-002 06/01/2021

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes

BRICKLAYER.....$ 37.78 24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0019-002 06/01/2021

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE,

PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter	$ 33.56	18.00
Millwright	$ 35.08	18.35
Pile Driver	$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A	$ 31.03	22.69
Zone B	$ 31.03	22.69

ELEC0014-002 12/26/2021

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 37.83	21.89

ELEC0014-007 05/30/2021

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 28.50	15.92

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes

Electricians:
Electrical contracts over $180,000.....$ 33.94 21.80
Electrical contracts under $180,000.....$ 31.75 21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:.....	$ 41.37	69.25%

ELEC0388-002 05/30/2021

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:.....	$ 36.22	26%+11.24

ELEC0430-002 06/01/2021

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	$ 43.45	24.89

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	$ 44.39	25.67

ELEC0494-006 06/01/2021

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:.....	$ 37.91	22.74

ELEC0494-013 06/01/2021

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		

Installer	$ 22.39	18.80
Technician	$ 32.49	20.26

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

---

ELEC0577-003 06/01/2021

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

ENGI0139-005 06/07/2021

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 42.62	24.75

Group 2	$ 42.62	24.75
Group 3	$ 41.62	24.75
Group 4	$ 41.36	24.75
Group 5	$ 41.07	24.75
Group 6	$ 35.17	24.75

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - $3.00 per hour
EPA Level ""B"" protection - $2.00 per hour
EPA Level ""C"" protection - $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminious paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self- propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling machine); automatic belt conveyor and surge bin; pug mill

operator; Oiler, pump (over 3 inches); Drilling Machine Tender, day light machine

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2021

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 38.77	28.15

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/06/2021

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 37.75	27.06

IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

IRON0512-008 06/03/2019

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 37.60	29.40

IRON0512-021 05/03/2021

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 35.09	31.80

LABO0113-002 06/01/2021

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.40	22.26
Group 2	$ 31.55	22.26
Group 3	$ 31.75	22.26
Group 4	$ 31.90	22.26
Group 5	$ 32.05	22.26
Group 6	$ 27.89	22.26

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

LABO0113-003 06/01/2021

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 30.65	22.26
Group 2	$ 30.75	22.26
Group 3	$ 30.80	22.26
Group 4	$ 31.00	22.26

Group 5	$ 30.85	22.26
Group 6	$ 27.74	22.26

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

LABO0113-011 06/01/2021

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 30.46	22.26
Group 2	$ 30.61	22.26
Group 3	$ 30.81	22.26
Group 4	$ 30.78	22.26
Group 5	$ 31.11	22.26
Group 6	$ 27.60	22.26

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

LABO0140-002 06/01/2020

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 33.72	17.95
Group 2	$ 33.82	17.95
Group 3	$ 33.87	17.95
Group 4	$ 34.07	17.95
Group 5	$ 33.92	17.95
Group 6	$ 30.35	17.95

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/01/2020

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 34.00	17.95
Group 2	$ 34.10	17.95
Group 3	$ 34.15	17.95
Group 4	$ 34.35	17.95
Group 5	$ 34.20	17.95
Group 6	$ 30.35	17.95

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

---

* PAIN0106-008 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 33.99	22.70
Spray, Sandblast, Steel	$ 34.59	22.70
Repaint:		
Brush, Roller	$ 33.09	22.70
Spray, Sandblast, Steel	$ 32.49	22.70

PAIN0108-002 06/01/2021

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 36.08	20.36
Spray & Sandblast	$ 37.52	23.27

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes

PAINTER.....$ 22.03 12.45

PAIN0781-002 06/01/2021

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 36.70	24.50
Brush	$ 35.95	24.50
Spray & Sandblast	$ 36.70	24.50

PAIN0802-002 06/01/2021

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 29.98	18.78

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2021

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER	$ 29.98	18.78

PAIN0934-001 06/01/2021

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 36.52	23.27
Spray	$ 37.52	23.27
Structural Steel	$ 36.67	23.27

PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 26.71	14.38

PLAS0599-010 06/01/2021

	Rates	Fringes

CEMENT MASON/CONCRETE FINISHER

Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 32.72	23.81
WELL DRILLER	$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other

health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISIO"

"General Decision Number: WI20220008 04/29/2022

Superseded General Decision Number: WI20210008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022

BRWI0001-002 06/01/2021

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.78	24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0009-001 06/01/2021

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0013-002 06/01/2021

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

BRWI0019-002 06/01/2021

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0021-002 06/01/2021

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.75	25.92

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes

BRICKLAYER.....$ 38.53 25.16

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen.....	$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER.....	$ 33.56	18.00
MILLWRIGHT.....	$ 35.08	18.35
PILEDRIVER.....	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter.....	$ 33.56	18.00
Millwright.....	$ 35.08	18.35
Pile Driver.....	$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER.....	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A	$ 31.03	22.69
Zone B	$ 31.03	22.69

CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A	$ 33.58	21.53
Zone B	$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 12/26/2021

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 37.83	21.89

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 41.37	69.25%

ELEC0388-002 05/30/2021

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:	$ 36.22	26%+11.24

ELEC0430-002 06/01/2021

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 43.45	24.89

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 44.39	25.67

ELEC0494-006 06/01/2021

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 37.91	22.74

ELEC0577-003 06/01/2021

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

ENGI0139-003 06/06/2021

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 44.27	23.80
Group 2	$ 43.02	23.80
Group 3	$ 40.97	23.80
Group 4	$ 40.44	23.80
Group 5	$ 38.37	23.80
Group 6	$ 36.84	23.80

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweeeprs; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freese Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3""; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

---

ENGI0139-007 06/07/2021

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 42.54	24.15
Group 2	$ 41.76	24.15
Group 3	$ 40.81	24.15
Group 4	$ 39.76	24.15

Group 5.....$ 38.36 24.15

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and\or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (14S or over); Screw type Pumps and Gypsum Pumps; Grout Pumps; Tractor, Bulldozer, End Loader, under 40 hp; Pumps (well points); Trencher (chain type 8 inch or smaller bucket; Industrial Locomotives; Roller under 5 tons; Fireman (Piledrivers and Derricks); Robotic Tool Carrier with or without attachments.

GROUP 5: Hoists (Automatic); Forklift, 12 ft to 25 ft; Tamper-Compactors, riding type; A-Frame andWinch Trucks; Concrete Auto Breaker; Hydrohammer, small; Brooms and Sweepers; Hoist (Tuggers); Stump Chipper, large; Boats (Tug, Safety, Work Barges and Launch); Shouldering Machine Operator; Screed Operator; Farm or Industrial Tractor; Post Hole Digger; Stone Crushers and Screening Plants; Firemen (Asphalt Plants); Air Compressor (400 CFM or over); Augers (vertical and horizontal); Generators, 150 KW and over; Air, Electric Hydraulic Jacks (Slipform); Prestress Machines; Skid Steer Loader with or without attachments; Boiler operators (temporary heat); Forklift, 12 ft and under; Screed Operator Milling Machine; Refrigeration Plant/Freeze Machine; Power Pack Vibratory/Ultra Sound Driver and Extractor; Generators under 150 KW; Combination small equipment operator; Compressors under 400 CFM; Welding Machines; Heaters, Mechanical; Pumps; Winches, Small Electric; Oiler and Greaser; Conveyor; High pressure

utility locating machine (daylighting machine).

IRON0008-002 06/01/2021

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 38.77	28.15

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/06/2021

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 37.75	27.06

IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

IRON0512-008 06/03/2019

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes

IRONWORKER.....$ 37.60 29.40

IRON0512-021 05/03/2021

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 35.09	31.80

LABO0113-004 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1	$ 16.38	21.08
Group 2	$ 18.65	21.08
Group 3	$ 22.19	21.08
Group 4	$ 31.56	21.08
Group 5	$ 31.70	21.08
Group 6	$ 31.76	21.08
Group 7	$ 34.77	21.08
Group 8	$ 37.59	21.08
Group 9	$ 38.23	21.08

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc; Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner; Pipe Layer; Rock Driller and Joint Man; Timber Man and Concrete Brusher; Bracer in Trench Behind Machine & Tight Sheeting; Concrete Formsetter and Shoveler; Jackhammer Operator

GROUP 9: Blaster

LABO0113-005 06/01/2020

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1	$ 23.05	21.08

Group 2	$ 28.98	21.08
Group 3	$ 32.34	21.08
Group 4	$ 34.11	21.08

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint Sawer, Gunnite Man, Manhole Builder, Welder-Torchman, Blaster, Caulker, Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher, Raker and Luteman, Hydraulic Jacking of Shields, Shield Drivers, Mining Machine, Lock Tenders, Mucking Machine Operator, Motor Men & Gauge Tenders and operation of incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LABO0113-008 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1	$ 22.19	21.08
Group 2	$ 31.70	21.08
Group 3	$ 31.76	21.08
Group 4	$ 34.77	21.08
Group 5	$ 34.91	21.08
Group 6	$ 37.59	21.08
Group 7	$ 38.23	21.08

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

---

* LABO0113-009 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1	$ 22.19	21.08
Group 2	$ 31.70	21.08
Group 3	$ 35.31	21.08
Group 4	$ 36.11	21.08
Group 5	$ 36.23	21.08
Group 6	$ 38.93	21.08
Group 7	$ 39.55	21.08

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add $2.00 to all classifications
*Compressed Air over 30 lbs add $3.00 to all classifcations

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder & Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pielayer and Joint Man; Bracerman; Nozzle Man on Gunite; Timber Man; Concrete Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add $0.15 per hour.

LABO0140-005 06/01/2020

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE,FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMMPEALEAU, VERNON, VILAS, WALWWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1	$ 29.33	17.88
Group 2	$ 31.18	17.88
Group 3	$ 31.48	17.88
Group 4	$ 32.13	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

  GROUP 2: General Laborer, Wellpoint Installation; Form
  Stripper; Strike Off worker

  GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
  Joint Sawer; Gunnite Man; Manhole Builder; Welder;
  Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
  Car Pusher; Raker and Luteman; Hydraulic jacking of
  shields, Shield Drivers; Mining Machine; Lock Tenders;
  Mucking Machine Operators; Motor Men and Gauge Tenders;
  Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

 LABO0464-002 06/01/2020

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 29.23	17.88
Group 2	$ 31.43	17.88
Group 3	$ 31.63	17.88
Group 4	$ 32.38	17.88

  FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add
  $1.00, 15- 30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

  GROUP 2: General Laborer; Wellpoint Installation; Concrete
  Worker; Form Stripper; Strike Off worker

  GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man;
  Joint Sawer; Gunnite Man; Manhole Builder; Welder;
  Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and
  Car Pusher; Raker and Luteman; Hydraulic jacking of
  shields, Shield Dirvers; Mining Machine; Lock Tenders;
  Mucking Machine Operators; Motor Men and Gauge Tenders;
  Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

 LABO1091-010 06/01/2020

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1	$ 29.02	17.88
Group 2	$ 31.08	17.88
Group 3	$ 31.28	17.88
Group 4	$ 32.03	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Dirvers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

---

* PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes

TRUCK DRIVER
     1 & 2 Axles.....$ 32.57 23.81
     3 or more Axles; Euclids,
     Dumptor & Articulated,
     Truck Mechanic.....$ 32.72 23.81

WELL DRILLER.....$ 16.52 3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the

most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISIO"

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	108.4300 RBC Progress Schedule	1.000 EACH	_____.____	_____.____
0004	201.0105 Clearing	121.000 STA	_____.____	_____.____
0006	201.0115 Clearing	3.900 ACRE	_____.____	_____.____
0008	201.0205 Grubbing	121.000 STA	_____.____	_____.____
0010	201.0215 Grubbing	3.900 ACRE	_____.____	_____.____
0012	203.0100 Removing Small Pipe Culverts	41.000 EACH	_____.____	_____.____
0014	204.0100 Removing Concrete Pavement	17,845.000 SY	_____.____	_____.____
0016	204.0110 Removing Asphaltic Surface	9,939.000 SY	_____.____	_____.____
0018	204.0120 Removing Asphaltic Surface Milling	8,547.000 SY	_____.____	_____.____
0020	204.0150 Removing Curb & Gutter	1,636.000 LF	_____.____	_____.____
0022	204.0155 Removing Concrete Sidewalk	137.000 SY	_____.____	_____.____
0024	204.0170 Removing Fence	15,641.000 LF	_____.____	_____.____
0026	204.0180 Removing Delineators and Markers	8.000 EACH	_____.____	_____.____
0028	204.0195 Removing Concrete Bases	4.000 EACH	_____.____	_____.____
0030	204.0210 Removing Manholes	6.000 EACH	_____.____	_____.____
0032	204.0220 Removing Inlets	27.000 EACH	_____.____	_____.____
0034	204.0225 Removing Septic Tanks	2.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0036	204.0245 Removing Storm Sewer (size) 01. 12-Inch	688.000 LF	_____.____	_____.____
0038	204.0245 Removing Storm Sewer (size) 02. 15-Inch	137.000 LF	_____.____	_____.____
0040	204.0245 Removing Storm Sewer (size) 03. 18-Inch	915.000 LF	_____.____	_____.____
0042	204.0245 Removing Storm Sewer (size) 04. 24-Inch	513.000 LF	_____.____	_____.____
0044	204.0245 Removing Storm Sewer (size) 05. 36-Inch	243.000 LF	_____.____	_____.____
0046	204.0270 Abandoning Culvert Pipes	4.000 EACH	_____.____	_____.____
0048	204.0280 Sealing Pipes	1.000 EACH	_____.____	_____.____
0050	204.9060.S Removing (item description) 01. Chain Link Gate	1.000 EACH	_____.____	_____.____
0052	204.9060.S Removing (item description) 02. Existing Business Sign	2.000 EACH	_____.____	_____.____
0054	204.9060.S Removing (item description) 03. Existing Lighting Unit	1.000 EACH	_____.____	_____.____
0056	205.0100 Excavation Common	518,099.000 CY	_____.____	_____.____
0058	205.0400 Excavation Marsh	6,210.000 CY	_____.____	_____.____
0060	206.1000 Excavation for Structures Bridges (structure) 01. B-13-0893	LS	LUMP SUM	_____.____
0062	209.2100 Backfill Granular Grade 2	16,215.000 CY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	209.2500 Backfill Granular Grade 2	4,140.000 TON	_____.____	_____.____
0066	210.1500 Backfill Structure Type A	534.000 TON	_____.____	_____.____
0068	213.0100 Finishing Roadway (project) 01. 3080-01-75	1.000 EACH	_____.____	_____.____
0070	213.0100 Finishing Roadway (project) 02. 3080-01-76	1.000 EACH	_____.____	_____.____
0072	214.0100 Obliterating Old Road	4.000 STA	_____.____	_____.____
0074	305.0110 Base Aggregate Dense 3/4-Inch	3,910.000 TON	_____.____	_____.____
0076	305.0120 Base Aggregate Dense 1 1/4-Inch	86,472.000 TON	_____.____	_____.____
0078	305.0130 Base Aggregate Dense 3-Inch	28,179.000 TON	_____.____	_____.____
0080	305.0500 Shaping Shoulders	186.000 STA	_____.____	_____.____
0082	310.0110 Base Aggregate Open-Graded	862.000 TON	_____.____	_____.____
0084	312.0110 Select Crushed Material	69,647.000 TON	_____.____	_____.____
0086	371.2000.S QMP Base Aggregate Dense 1 1/4-Inch Compaction	12.000 EACH	_____.____	_____.____
0088	405.0100 Coloring Concrete WisDOT Red	552.000 CY	_____.____	_____.____
0090	415.0060 Concrete Pavement 6-Inch	124.000 SY	_____.____	_____.____
0092	415.0090 Concrete Pavement 9-Inch	28,521.000 SY	_____.____	_____.____
0094	415.0410 Concrete Pavement Approach Slab	160.000 SY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0096	416.0160 Concrete Driveway 6-Inch	62.000 SY	_____.____	_____.____
0098	416.0512 Concrete Truck Apron 12-Inch	1,660.000 SY	_____.____	_____.____
0100	416.0610 Drilled Tie Bars	934.000 EACH	_____.____	_____.____
0102	416.0620 Drilled Dowel Bars	1,774.000 EACH	_____.____	_____.____
0104	416.1715 Concrete Pavement Repair SHES	602.000 SY	_____.____	_____.____
0106	416.1725 Concrete Pavement Replacement SHES	1,586.000 SY	_____.____	_____.____
0108	450.4000 HMA Cold Weather Paving	2,925.000 TON	_____.____	_____.____
0110	455.0605 Tack Coat	5,792.000 GAL	_____.____	_____.____
0112	460.2000 Incentive Density HMA Pavement	14,060.000 DOL	1.00000	14,060.00
0114	460.5223 HMA Pavement 3 LT 58-28 S	360.000 TON	_____.____	_____.____
0116	460.5224 HMA Pavement 4 LT 58-28 S	290.000 TON	_____.____	_____.____
0118	460.6223 HMA Pavement 3 MT 58-28 S	9,982.000 TON	_____.____	_____.____
0120	460.6224 HMA Pavement 4 MT 58-28 S	10,968.000 TON	_____.____	_____.____
0122	460.6424 HMA Pavement 4 MT 58-28 H	345.000 TON	_____.____	_____.____
0124	465.0105 Asphaltic Surface	1,638.000 TON	_____.____	_____.____
0126	465.0120 Asphaltic Surface Driveways and Field Entrances	45.000 TON	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0128	465.0125 Asphaltic Surface Temporary	1,440.000 TON	_____.____	_____.____
0130	465.0305 Asphaltic Surface Safety Islands	8.000 TON	_____.____	_____.____
0132	465.0310 Asphaltic Curb	658.000 LF	_____.____	_____.____
0134	465.0315 Asphaltic Flumes	368.000 SY	_____.____	_____.____
0136	465.0400 Asphaltic Shoulder Rumble Strips	34,905.000 LF	_____.____	_____.____
0138	501.1000.S Ice Hot Weather Concreting	15,655.000 LB	_____.____	_____.____
0140	502.0100 Concrete Masonry Bridges	1,240.000 CY	_____.____	_____.____
0142	502.3200 Protective Surface Treatment	1,701.000 SY	_____.____	_____.____
0144	503.0137 Prestressed Girder Type I 36W-Inch	1,028.000 LF	_____.____	_____.____
0146	505.0400 Bar Steel Reinforcement HS Structures	19,880.000 LB	_____.____	_____.____
0148	505.0600 Bar Steel Reinforcement HS Coated Structures	189,140.000 LB	_____.____	_____.____
0150	505.0800.S Bar Steel Reinforcement HS Stainless Structures	3,060.000 LB	_____.____	_____.____
0152	506.2605 Bearing Pads Elastomeric Non-Laminated	28.000 EACH	_____.____	_____.____
0154	506.4000 Steel Diaphragms (structure) 01. B-13-0893	12.000 EACH	_____.____	_____.____
0156	511.1300 Temporary Shoring (location) 01. R-13-0371	1,665.000 SF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0158	513.4091 Railing Tubular Screening	747.000 LF	_____.____	_____.____
0160	516.0500 Rubberized Membrane Waterproofing	36.000 SY	_____.____	_____.____
0162	517.1010.S Concrete Staining (structure) 01. B-13-0893	10,551.000 SF	_____.____	_____.____
0164	517.1010.S Concrete Staining (structure) 02. R-13-0370	2,222.000 SF	_____.____	_____.____
0166	517.1010.S Concrete Staining (structure) 03. R-13-0371	2,207.000 SF	_____.____	_____.____
0168	517.1050.S Architectural Surface Treatment (structure) 01. B-13-0893	726.000 SF	_____.____	_____.____
0170	517.1050.S Architectural Surface Treatment (structure) 02. R-13-0370	1,595.000 SF	_____.____	_____.____
0172	517.1050.S Architectural Surface Treatment (structure) 03. R-13-0371	1,581.000 SF	_____.____	_____.____
0174	520.2012 Culvert Pipe Temporary 12-Inch	132.000 LF	_____.____	_____.____
0176	520.2018 Culvert Pipe Temporary 18-Inch	62.000 LF	_____.____	_____.____
0178	520.2030 Culvert Pipe Temporary 30-Inch	42.000 LF	_____.____	_____.____
0180	520.8000 Concrete Collars for Pipe	5.000 EACH	_____.____	_____.____
0182	520.8700 Cleaning Culvert Pipes	4.000 EACH	_____.____	_____.____
0184	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	12.000 EACH	_____.____	_____.____
0186	521.1618 Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	2.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0188	521.3118 Culvert Pipe Corrugated Steel 18-Inch	174.000 LF	_____.____	_____.____
0190	522.0112 Culvert Pipe Reinforced Concrete Class III 12-Inch	24.000 LF	_____.____	_____.____
0192	522.0115 Culvert Pipe Reinforced Concrete Class III 15-Inch	18.000 LF	_____.____	_____.____
0194	522.0124 Culvert Pipe Reinforced Concrete Class III 24-Inch	544.000 LF	_____.____	_____.____
0196	522.0136 Culvert Pipe Reinforced Concrete Class III 36-Inch	82.000 LF	_____.____	_____.____
0198	522.0142 Culvert Pipe Reinforced Concrete Class III 42-Inch	138.000 LF	_____.____	_____.____
0200	522.0148 Culvert Pipe Reinforced Concrete Class III 48-Inch	484.000 LF	_____.____	_____.____
0202	522.0412 Culvert Pipe Reinforced Concrete Class IV 12-Inch	22.000 LF	_____.____	_____.____
0204	522.0415 Culvert Pipe Reinforced Concrete Class IV 15-Inch	32.000 LF	_____.____	_____.____
0206	522.0418 Culvert Pipe Reinforced Concrete Class IV 18-Inch	214.000 LF	_____.____	_____.____
0208	522.0430 Culvert Pipe Reinforced Concrete Class IV 30-Inch	266.000 LF	_____.____	_____.____
0210	522.0524 Culvert Pipe Reinforced Concrete Class V 24-Inch	336.000 LF	_____.____	_____.____
0212	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	9.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

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	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	4.000 EACH	_____.____	_____.____
0216	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	31.000 EACH	_____.____	_____.____
0218	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	22.000 EACH	_____.____	_____.____
0220	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	8.000 EACH	_____.____	_____.____
0222	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	5.000 EACH	_____.____	_____.____
0224	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	5.000 EACH	_____.____	_____.____
0226	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	7.000 EACH	_____.____	_____.____
0228	522.2329 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	310.000 LF	_____.____	_____.____
0230	522.2334 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	122.000 LF	_____.____	_____.____
0232	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	2.000 EACH	_____.____	_____.____
0234	522.2634 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	2.000 EACH	_____.____	_____.____
0236	524.0615 Apron Endwalls for Culvert Pipe Salvaged 15-Inch	2.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0238	530.0118 Culvert Pipe Corrugated Polyethylene 18-Inch	52.000 LF	_____.____	_____.____
0240	531.1100 Concrete Masonry Ancillary Structures Type NS	34.800 CY	_____.____	_____.____
0242	531.1140 Steel Reinforcement HS Ancillary Structures Type NS	4,298.000 LB	_____.____	_____.____
0244	531.1160 Steel Reinforcement HS Coated Ancillary Structures Type NS	1,100.000 LB	_____.____	_____.____
0246	531.2024 Drilling Shaft 24-Inch	149.000 LF	_____.____	_____.____
0248	531.2036 Drilling Shaft 36-Inch	177.000 LF	_____.____	_____.____
0250	531.2042 Drilling Shaft 42-Inch	36.000 LF	_____.____	_____.____
0252	531.2048 Drilling Shaft 48-Inch	56.000 LF	_____.____	_____.____
0254	531.4050 Foundation Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0256	531.5130 Foundation Single-Shaft Type MC-III (structure) 01. S-13-0559	1.000 EACH	_____.____	_____.____
0258	531.5130 Foundation Single-Shaft Type MC-III (structure) 02. S-13-0560	1.000 EACH	_____.____	_____.____
0260	531.5340 Foundation Single-Shaft Type TC-IV (structure) 01. S-13-0562	1.000 EACH	_____.____	_____.____
0262	531.5340 Foundation Single-Shaft Type TC-IV (structure) 02. S-13-0564	1.000 EACH	_____.____	_____.____
0264	531.5340 Foundation Single-Shaft Type TC-IV (structure) 03. S-13-0570	1.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0266	531.5420 Foundation Single-Shaft Type TF-II (structure) 01. S-13-0561	2.000 EACH	_____.____	_____.____
0268	531.6010 Foundation Two-Shaft Type FC-I (structure) 01. S-13-0569	1.000 EACH	_____.____	_____.____
0270	531.6020 Foundation Two-Shaft Type FC-II (structure) 01. S-13-0565	1.000 EACH	_____.____	_____.____
0272	531.8990 Anchor Assemblies Poles on Structures	2.000 EACH	_____.____	_____.____
0274	532.5130 Monotube Cantilever Type III (structure) 01. S-13-0559	1.000 EACH	_____.____	_____.____
0276	532.5130 Monotube Cantilever Type III (structure) 02. S-13-0560	1.000 EACH	_____.____	_____.____
0278	532.5340 Truss Cantilever 2-Chord Type IV (structure) 01. S-13-0562	1.000 EACH	_____.____	_____.____
0280	532.5340 Truss Cantilever 2-Chord Type IV (structure) 02. S-13-0564	1.000 EACH	_____.____	_____.____
0282	532.5340 Truss Cantilever 2-Chord Type IV (structure) 03. S-13-0570	1.000 EACH	_____.____	_____.____
0284	532.5400 Truss Full Span 2-Chord Type NS (structure) 01. S-13-0563	1.000 EACH	_____.____	_____.____
0286	532.5420 Truss Full Span 2-Chord Type II (structure) 01. S-13-0561	1.000 EACH	_____.____	_____.____
0288	532.6010 Truss Cantilever 4-Chord Type I (structure) 01. S-13-0569	1.000 EACH	_____.____	_____.____
0290	532.6010 Truss Cantilever 4-Chord Type I (structure) 02. S-13-0571	1.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0292	532.6020 Truss Cantilever 4-Chord Type II (structure) 01. S-13-0565	1.000 EACH	_____.____	_____.____
0294	550.1100 Piling Steel HP 10-Inch X 42 Lb	5,292.000 LF	_____.____	_____.____
0296	601.0405 Concrete Curb & Gutter 18-Inch Type A	866.000 LF	_____.____	_____.____
0298	601.0409 Concrete Curb & Gutter 30-Inch Type A	7,079.000 LF	_____.____	_____.____
0300	601.0411 Concrete Curb & Gutter 30-Inch Type D	21,563.000 LF	_____.____	_____.____
0302	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	557.000 LF	_____.____	_____.____
0304	601.0553 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	895.000 LF	_____.____	_____.____
0306	601.0580 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	1,417.000 LF	_____.____	_____.____
0308	601.0600 Concrete Curb Pedestrian	392.000 LF	_____.____	_____.____
0310	602.0405 Concrete Sidewalk 4-Inch	38,771.000 SF	_____.____	_____.____
0312	602.0410 Concrete Sidewalk 5-Inch	22,533.000 SF	_____.____	_____.____
0314	602.0415 Concrete Sidewalk 6-Inch	2,855.000 SF	_____.____	_____.____
0316	602.0515 Curb Ramp Detectable Warning Field Natural Patina	636.000 SF	_____.____	_____.____
0318	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	58.000 SF	_____.____	_____.____
0320	603.1142 Concrete Barrier Type S42	5,864.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0322	603.8000 Concrete Barrier Temporary Precast Delivered	5,225.000 LF	_____.____	_____.____
0324	603.8125 Concrete Barrier Temporary Precast Installed	5,350.000 LF	_____.____	_____.____
0326	604.0400 Slope Paving Concrete	49.000 SY	_____.____	_____.____
0328	606.0200 Riprap Medium	997.000 CY	_____.____	_____.____
0330	606.0300 Riprap Heavy	166.000 CY	_____.____	_____.____
0332	608.0115 Relaid Storm Sewer 15-Inch	104.000 LF	_____.____	_____.____
0334	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	1,919.000 LF	_____.____	_____.____
0336	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	1,210.000 LF	_____.____	_____.____
0338	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	1,018.000 LF	_____.____	_____.____
0340	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	124.000 LF	_____.____	_____.____
0342	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	506.000 LF	_____.____	_____.____
0344	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	1,935.000 LF	_____.____	_____.____
0346	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	743.000 LF	_____.____	_____.____
0348	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	602.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0350	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	243.000 LF	_____.____	_____.____
0352	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	239.000 LF	_____.____	_____.____
0354	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	227.000 LF	_____.____	_____.____
0356	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	767.000 LF	_____.____	_____.____
0358	611.0535 Manhole Covers Type J-Special	28.000 EACH	_____.____	_____.____
0360	611.0610 Inlet Covers Type BW	18.000 EACH	_____.____	_____.____
0362	611.0624 Inlet Covers Type H	89.000 EACH	_____.____	_____.____
0364	611.0627 Inlet Covers Type HM	3.000 EACH	_____.____	_____.____
0366	611.0636 Inlet Covers Type HM-S	3.000 EACH	_____.____	_____.____
0368	611.0639 Inlet Covers Type H-S	45.000 EACH	_____.____	_____.____
0370	611.0642 Inlet Covers Type MS	16.000 EACH	_____.____	_____.____
0372	611.0652 Inlet Covers Type T	11.000 EACH	_____.____	_____.____
0374	611.2005 Manholes 5-FT Diameter	7.000 EACH	_____.____	_____.____
0376	611.3004 Inlets 4-FT Diameter	14.000 EACH	_____.____	_____.____
0378	611.3225 Inlets 2x2.5-FT	15.000 EACH	_____.____	_____.____
0380	611.3230 Inlets 2x3-FT	57.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0382	611.3901 Inlets Median 1 Grate	2.000 EACH	_____.____	_____.____
0384	611.3902 Inlets Median 2 Grate	7.000 EACH	_____.____	_____.____
0386	611.8120.S Cover Plates Temporary	8.000 EACH	_____.____	_____.____
0388	611.9800.S Pipe Grates	18.000 EACH	_____.____	_____.____
0390	612.0106 Pipe Underdrain 6-Inch	12,224.000 LF	_____.____	_____.____
0392	612.0206 Pipe Underdrain Unperforated 6-Inch	17.000 LF	_____.____	_____.____
0394	612.0406 Pipe Underdrain Wrapped 6-Inch	390.000 LF	_____.____	_____.____
0396	614.0220 Steel Thrie Beam Bullnose Terminal	2.000 EACH	_____.____	_____.____
0398	614.0230 Steel Thrie Beam	226.600 LF	_____.____	_____.____
0400	614.0905 Crash Cushions Temporary	5.000 EACH	_____.____	_____.____
0402	614.2300 MGS Guardrail 3	283.000 LF	_____.____	_____.____
0404	614.2500 MGS Thrie Beam Transition	236.000 LF	_____.____	_____.____
0406	614.2610 MGS Guardrail Terminal EAT	6.000 EACH	_____.____	_____.____
0408	616.0100 Fence Woven Wire (height) 01. 4-FT	10,780.000 LF	_____.____	_____.____
0410	616.0350.S Gates Wood Single Leaf (length) 01. 16-FT	1.000 EACH	_____.____	_____.____
0412	616.0406 Fence Chain Link Salvaged 6-FT	880.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0414	616.0700.S Fence Safety	6,590.000 LF	_____.____	_____.____
0416	618.0100 Maintenance And Repair of Haul Roads (project) 01. 3080-01-40	1.000 EACH	_____.____	_____.____
0418	618.0100 Maintenance And Repair of Haul Roads (project) 02. 3080-01-75	1.000 EACH	_____.____	_____.____
0420	618.0100 Maintenance And Repair of Haul Roads (project) 03. 3080-01-76	1.000 EACH	_____.____	_____.____
0422	619.1000 Mobilization	1.000 EACH	_____.____	_____.____
0424	620.0300 Concrete Median Sloped Nose	714.000 SF	_____.____	_____.____
0426	623.0200 Dust Control Surface Treatment	241,423.000 SY	_____.____	_____.____
0428	624.0100 Water	1,156.000 MGAL	_____.____	_____.____
0430	625.0500 Salvaged Topsoil	376,490.000 SY	_____.____	_____.____
0432	627.0200 Mulching	236,161.000 SY	_____.____	_____.____
0434	628.1504 Silt Fence	6,079.000 LF	_____.____	_____.____
0436	628.1520 Silt Fence Maintenance	6,079.000 LF	_____.____	_____.____
0438	628.1905 Mobilizations Erosion Control	19.000 EACH	_____.____	_____.____
0440	628.1910 Mobilizations Emergency Erosion Control	19.000 EACH	_____.____	_____.____
0442	628.2004 Erosion Mat Class I Type B	71,628.000 SY	_____.____	_____.____
0444	628.2008 Erosion Mat Urban Class I Type B	42,585.000 SY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0446	628.2023 Erosion Mat Class II Type B	28,485.000 SY	_____.____	_____.____
0448	628.7005 Inlet Protection Type A	233.000 EACH	_____.____	_____.____
0450	628.7010 Inlet Protection Type B	27.000 EACH	_____.____	_____.____
0452	628.7015 Inlet Protection Type C	159.000 EACH	_____.____	_____.____
0454	628.7020 Inlet Protection Type D	28.000 EACH	_____.____	_____.____
0456	628.7504 Temporary Ditch Checks	1,087.000 LF	_____.____	_____.____
0458	628.7555 Culvert Pipe Checks	190.000 EACH	_____.____	_____.____
0460	628.7560 Tracking Pads	10.000 EACH	_____.____	_____.____
0462	628.7570 Rock Bags	120.000 EACH	_____.____	_____.____
0464	629.0205 Fertilizer Type A	251.200 CWT	_____.____	_____.____
0466	630.0110 Seeding Mixture No. 10	1,698.000 LB	_____.____	_____.____
0468	630.0120 Seeding Mixture No. 20	2,750.000 LB	_____.____	_____.____
0470	630.0130 Seeding Mixture No. 30	2,653.000 LB	_____.____	_____.____
0472	630.0140 Seeding Mixture No. 40	353.000 LB	_____.____	_____.____
0474	630.0200 Seeding Temporary	10,651.000 LB	_____.____	_____.____
0476	630.0500 Seed Water	18,563.000 MGAL	_____.____	_____.____
0478	631.1000 Sod Lawn	72.000 SY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0480	631.1100 Sod Erosion Control	34.000 SY	_____.____	_____.____
0482	633.0100 Delineator Posts Steel	89.000 EACH	_____.____	_____.____
0484	633.0500 Delineator Reflectors	117.000 EACH	_____.____	_____.____
0486	633.1000 Delineators Barrier Wall	31.000 EACH	_____.____	_____.____
0488	633.5200 Markers Culvert End	69.000 EACH	_____.____	_____.____
0490	634.0612 Posts Wood 4x6-Inch X 12-FT	5.000 EACH	_____.____	_____.____
0492	634.0614 Posts Wood 4x6-Inch X 14-FT	95.000 EACH	_____.____	_____.____
0494	634.0616 Posts Wood 4x6-Inch X 16-FT	45.000 EACH	_____.____	_____.____
0496	634.0618 Posts Wood 4x6-Inch X 18-FT	48.000 EACH	_____.____	_____.____
0498	634.0620 Posts Wood 4x6-Inch X 20-FT	4.000 EACH	_____.____	_____.____
0500	634.0622 Posts Wood 4x6-Inch X 22-FT	2.000 EACH	_____.____	_____.____
0502	635.0200 Sign Supports Structural Steel HS	8,241.000 LB	_____.____	_____.____
0504	637.0620 Sign Flags Permanent Type II	70.000 EACH	_____.____	_____.____
0506	637.1220 Signs Type I Reflective SH	2,727.500 SF	_____.____	_____.____
0508	637.2210 Signs Type II Reflective H	1,304.180 SF	_____.____	_____.____
0510	637.2220 Signs Type II Reflective SH	13.500 SF	_____.____	_____.____
0512	637.2230 Signs Type II Reflective F	400.500 SF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0514	638.2102 Moving Signs Type II	40.000 EACH	_____.____	_____.____
0516	638.2602 Removing Signs Type II	110.000 EACH	_____.____	_____.____
0518	638.3000 Removing Small Sign Supports	101.000 EACH	_____.____	_____.____
0520	640.1303.S Pond Liner Clay	26,680.000 CY	_____.____	_____.____
0522	642.5401 Field Office Type D	1.000 EACH	_____.____	_____.____
0524	643.0300 Traffic Control Drums	112,658.000 DAY	_____.____	_____.____
0526	643.0420 Traffic Control Barricades Type III	8,064.000 DAY	_____.____	_____.____
0528	643.0500 Traffic Control Flexible Tubular Marker Posts	15.000 EACH	_____.____	_____.____
0530	643.0600 Traffic Control Flexible Tubular Marker Bases	15.000 EACH	_____.____	_____.____
0532	643.0705 Traffic Control Warning Lights Type A	16,118.000 DAY	_____.____	_____.____
0534	643.0715 Traffic Control Warning Lights Type C	8,403.000 DAY	_____.____	_____.____
0536	643.0800 Traffic Control Arrow Boards	831.000 DAY	_____.____	_____.____
0538	643.0900 Traffic Control Signs	55,928.000 DAY	_____.____	_____.____
0540	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.____	_____.____
0542	643.1000 Traffic Control Signs Fixed Message	220.000 SF	_____.____	_____.____
0544	643.1050 Traffic Control Signs PCMS	426.000 DAY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0546	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0548	644.1810 Temporary Pedestrian Barricade	42.000 LF	_____.____	_____.____
0550	645.0111 Geotextile Type DF Schedule A	6,128.000 SY	_____.____	_____.____
0552	645.0120 Geotextile Type HR	2,801.000 SY	_____.____	_____.____
0554	645.0135 Geotextile Type SR	4,600.000 SY	_____.____	_____.____
0556	645.0220 Geogrid Type SR	9,700.000 SY	_____.____	_____.____
0558	646.1020 Marking Line Epoxy 4-Inch	43,181.000 LF	_____.____	_____.____
0560	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch	47,680.000 LF	_____.____	_____.____
0562	646.1555 Marking Line Grooved Contrast Permanent Tape 4-Inch	4,890.000 LF	_____.____	_____.____
0564	646.3020 Marking Line Epoxy 8-Inch	4,608.000 LF	_____.____	_____.____
0566	646.3555 Marking Line Grooved Contrast Permanent Tape 8-Inch	5,212.000 LF	_____.____	_____.____
0568	646.5020 Marking Arrow Epoxy	33.000 EACH	_____.____	_____.____
0570	646.6120 Marking Stop Line Epoxy 18-Inch	26.000 LF	_____.____	_____.____
0572	646.6320 Marking Dotted Extension Epoxy 18-Inch	354.000 LF	_____.____	_____.____
0574	646.6464 Cold Weather Marking Epoxy 4-Inch	4,812.000 LF	_____.____	_____.____
0576	646.7120 Marking Diagonal Epoxy 12-Inch	540.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0578	646.7220 Marking Chevron Epoxy 24-Inch	711.000 LF	_____.____	_____.____
0580	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	865.000 LF	_____.____	_____.____
0582	646.8120 Marking Curb Epoxy	96.000 LF	_____.____	_____.____
0584	646.8220 Marking Island Nose Epoxy	7.000 EACH	_____.____	_____.____
0586	646.9000 Marking Removal Line 4-Inch	15,405.000 LF	_____.____	_____.____
0588	646.9100 Marking Removal Line 8-Inch	200.000 LF	_____.____	_____.____
0590	646.9200 Marking Removal Line Wide	16.000 LF	_____.____	_____.____
0592	646.9300 Marking Removal Special Marking	2.000 EACH	_____.____	_____.____
0594	649.0105 Temporary Marking Line Paint 4-Inch	18,520.000 LF	_____.____	_____.____
0596	649.0120 Temporary Marking Line Epoxy 4-Inch	2,990.000 LF	_____.____	_____.____
0598	649.0150 Temporary Marking Line Removable Tape 4-Inch	22,755.000 LF	_____.____	_____.____
0600	649.0220 Temporary Marking Line Epoxy 8-Inch	200.000 LF	_____.____	_____.____
0602	649.0250 Temporary Marking Line Removable Tape 8-Inch	880.000 LF	_____.____	_____.____
0604	649.0520 Temporary Marking Arrow Epoxy	2.000 EACH	_____.____	_____.____
0606	649.0760 Temporary Marking Raised Pavement Marker Type I	102.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0608	649.0820 Temporary Marking Stop Line Epoxy 18-Inch	44.000 LF	_____.____	_____.____
0610	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	74.000 LF	_____.____	_____.____
0612	649.0960 Temporary Marking Removable Mask Out Tape 6-Inch	40.000 LF	_____.____	_____.____
0614	652.0125 Conduit Rigid Metallic 2-Inch	32.000 LF	_____.____	_____.____
0616	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	14,326.000 LF	_____.____	_____.____
0618	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,142.000 LF	_____.____	_____.____
0620	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	445.000 LF	_____.____	_____.____
0622	652.0700.S Install Conduit into Existing Item	1.000 EACH	_____.____	_____.____
0624	653.0140 Pull Boxes Steel 24x42-Inch	72.000 EACH	_____.____	_____.____
0626	653.0222 Junction Boxes 18x12x6-Inch	2.000 EACH	_____.____	_____.____
0628	654.0105 Concrete Bases Type 5	32.000 EACH	_____.____	_____.____
0630	654.0230 Concrete Control Cabinet Bases Type L30	4.000 EACH	_____.____	_____.____
0632	655.0515 Electrical Wire Traffic Signals 10 AWG	5,575.000 LF	_____.____	_____.____
0634	655.0610 Electrical Wire Lighting 12 AWG	13,116.000 LF	_____.____	_____.____
0636	655.0615 Electrical Wire Lighting 10 AWG	23,862.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0638	655.0620 Electrical Wire Lighting 8 AWG	34,730.000 LF	_____.____	_____.____
0640	655.0625 Electrical Wire Lighting 6 AWG	20,649.000 LF	_____.____	_____.____
0642	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. 325+31.89 'MP'	LS	LUMP SUM	_____.____
0644	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. 393+42.75 'MP'	LS	LUMP SUM	_____.____
0646	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. 393+56.17'MP'	LS	LUMP SUM	_____.____
0648	656.0200 Electrical Service Meter Breaker Pedestal (location) 04. 517+01.78'NB'	LS	LUMP SUM	_____.____
0650	656.0200 Electrical Service Meter Breaker Pedestal (location) 05. CCTV130188	LS	LUMP SUM	_____.____
0652	656.0500 Electrical Service Breaker Disconnect Box (location) 01. CCTV1301888	LS	LUMP SUM	_____.____
0654	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	90.000 EACH	_____.____	_____.____
0656	657.0322 Poles Type 5-Aluminum	34.000 EACH	_____.____	_____.____
0658	657.0615 Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	42.000 EACH	_____.____	_____.____
0660	657.0715 Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	53.000 EACH	_____.____	_____.____
0662	659.1115 Luminaires Utility LED A	42.000 EACH	_____.____	_____.____
0664	659.1120 Luminaires Utility LED B	53.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0666	659.2230 Lighting Control Cabinets 240/480 30-Inch	4.000 EACH	_____.____	_____.____
0668	670.0100 Field System Integrator	LS	LUMP SUM	_____.____
0670	670.0200 ITS Documentation 01. 3080-01-40	LS	LUMP SUM	_____.____
0672	670.0200 ITS Documentation 02. 3080-01-76	LS	LUMP SUM	_____.____
0674	671.0112 Conduit HDPE 1-Duct 2-Inch	2,745.000 LF	_____.____	_____.____
0676	671.0212 Conduit HDPE Directional Bore 1-Duct 2-Inch	2,375.000 LF	_____.____	_____.____
0678	673.0105 Communication Vault Type 1	4.000 EACH	_____.____	_____.____
0680	673.0200 Tracer Wire Marker Posts	4.000 EACH	_____.____	_____.____
0682	673.1225.S Install Pole Mounted Cabinet	1.000 EACH	_____.____	_____.____
0684	674.0300 Remove Cable	5,310.000 LF	_____.____	_____.____
0686	674.0400 Reinstall Cable	3,860.000 LF	_____.____	_____.____
0688	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0690	677.0200 Install Camera Assembly	1.000 EACH	_____.____	_____.____
0692	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	835.000 LF	_____.____	_____.____
0694	678.0024 Install Fiber Optic Cable Outdoor Plant 24-CT	1,330.000 LF	_____.____	_____.____
0696	678.0200 Fiber Optic Splice Enclosure	2.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0698	678.0300 Fiber Optic Splice	104.000 EACH	_____._____	_____._____
0700	678.0400 Fiber Optic Termination	6.000 EACH	_____._____	_____._____
0702	678.0500 Communication System Testing 01. 3080-01-40	LS	LUMP SUM	_____._____
0704	678.0500 Communication System Testing 02. 3080-01-76	LS	LUMP SUM	_____._____
0706	678.0600 Install Ethernet Switches	1.000 EACH	_____._____	_____._____
0708	690.0150 Sawing Asphalt	4,072.000 LF	_____._____	_____._____
0710	690.0250 Sawing Concrete	13,057.000 LF	_____._____	_____._____
0712	715.0502 Incentive Strength Concrete Structures	7,440.000 DOL	1.00000	7,440.00
0714	715.0603 Incentive Strength Concrete Barrier	2,935.000 DOL	1.00000	2,935.00
0716	715.0720 Incentive Compressive Strength Concrete Pavement	8,644.000 DOL	1.00000	8,644.00
0718	740.0440 Incentive IRI Ride	8,711.000 DOL	1.00000	8,711.00
0720	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,400.000 HRS	5.00000	12,000.00
0722	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	3,200.000 HRS	5.00000	16,000.00
0724	SPV.0005 Special 01. Pre-Planting Vegetation Treatment	2.800 ACRE	_____._____	_____._____
0726	SPV.0005 Special 02. Seed Bed Preparation	2.800 ACRE	_____._____	_____._____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0728	SPV.0045 Special 01. Temporary Portable Rumble Strip Arrays Non-flagging	48.000 DAY	_____.____	_____.____
0730	SPV.0060 Special 01. Construct LB-3 Base	58.000 EACH	_____.____	_____.____
0732	SPV.0060 Special 02. Poles 30-Foot 11 Gauge Simplex	58.000 EACH	_____.____	_____.____
0734	SPV.0060 Special 03. Ground Rod	1.000 EACH	_____.____	_____.____
0736	SPV.0060 Special 04. CIP Inlet 4	20.000 EACH	_____.____	_____.____
0738	SPV.0060 Special 05. CIP Inlet 2X3	43.000 EACH	_____.____	_____.____
0740	SPV.0060 Special 06. CIP Manhole 6X6	10.000 EACH	_____.____	_____.____
0742	SPV.0060 Special 07. CIP Inlet SP	6.000 EACH	_____.____	_____.____
0744	SPV.0060 Special 08. Salvage and Replace Pipe Underdrain Endwall	63.000 EACH	_____.____	_____.____
0746	SPV.0060 Special 09. Removing Communication Vault	3.000 EACH	_____.____	_____.____
0748	SPV.0060 Special 10. Outlet Control Structure Pond A	1.000 EACH	_____.____	_____.____
0750	SPV.0060 Special 11. Outlet Control Structure Pond B	1.000 EACH	_____.____	_____.____
0752	SPV.0060 Special 12. Outlet Control Structure Pond C	1.000 EACH	_____.____	_____.____
0754	SPV.0060 Special 13. Orifice Plate Restrictor 6-Inch	1.000 EACH	_____.____	_____.____
0756	SPV.0060 Special 14. Outlet Control Structure Pond D	1.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0758	SPV.0060 Special 15. Settlement Gauge	5.000 EACH	_____.____	_____.____
0760	SPV.0060 Special 16. Temporary Connection to Existing Storm Sewer	4.000 EACH	_____.____	_____.____
0762	SPV.0060 Special 17. Reconstructing Inlets Median 2 Grate	3.000 EACH	_____.____	_____.____
0764	SPV.0060 Special 19. Fence Gate Salvaged	2.000 EACH	_____.____	_____.____
0766	SPV.0060 Special 20. Native Seed Surveillance and Care Cycles	8.000 EACH	_____.____	_____.____
0768	SPV.0060 Special 21. Dewatering for Pond A	1.000 EACH	_____.____	_____.____
0770	SPV.0060 Special 22. Dewatering for Pond B	1.000 EACH	_____.____	_____.____
0772	SPV.0060 Special 23. Dewatering for Pond EX-S	1.000 EACH	_____.____	_____.____
0774	SPV.0060 Special 24. Dewatering for Pond EX-N	1.000 EACH	_____.____	_____.____
0776	SPV.0060 Special 25. Dewatering for County Pond	1.000 EACH	_____.____	_____.____
0778	SPV.0060 Special 26. Project Dewatering, ID 3080-01-40	1.000 EACH	_____.____	_____.____
0780	SPV.0060 Special 27. Project Dewatering, ID 3080-01-76	1.000 EACH	_____.____	_____.____
0782	SPV.0060 Special 30. Install City Provided Sign	38.000 EACH	_____.____	_____.____
0784	SPV.0060 Special 31. Precast Sign Post Base	23.000 EACH	_____.____	_____.____
0786	SPV.0060 Special 32. Sign Post Base For Concrete Installation	4.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0788	SPV.0060 Special 33. Temporary Lighting System Millpond Road Intersection	1.000 EACH	_____.____	_____.____
0790	SPV.0060 Special 34. Survey Project 3080-01-40	1.000 EACH	_____.____	_____.____
0792	SPV.0060 Special 35. Survey Project 3080-01-75	1.000 EACH	_____.____	_____.____
0794	SPV.0060 Special 36. Survey Project 3080-01-76	1.000 EACH	_____.____	_____.____
0796	SPV.0060 Special 37. Waste Water Control	1.000 EACH	_____.____	_____.____
0798	SPV.0060 Special 38. Reconstruct Bench and Flowlines	1.000 EACH	_____.____	_____.____
0800	SPV.0060 Special 39. Utility Line Opening (ULO)	20.000 EACH	_____.____	_____.____
0802	SPV.0060 Special 40. Construction Staking for Sanitary Sewer	1.000 EACH	_____.____	_____.____
0804	SPV.0060 Special 41. Sewer Electronic Markers	3.000 EACH	_____.____	_____.____
0806	SPV.0060 Special 42. Sanitary Sewer Tap	2.000 EACH	_____.____	_____.____
0808	SPV.0060 Special 43. Sanitary Sewer Access Structure (4-FT Diameter)	21.000 EACH	_____.____	_____.____
0810	SPV.0060 Special 44. Sanitary Sewer Access Structure (5-FT Diameter)	1.000 EACH	_____.____	_____.____
0812	SPV.0060 Special 45. Sanitary Sewer Internal Chimney Seal	4.000 EACH	_____.____	_____.____
0814	SPV.0060 Special 46. External Sanitary Sewer Access Structure Joint Seal	20.000 EACH	_____.____	_____.____
0816	SPV.0060 Special 47. Adjust Sewer Access Structure Special	3.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0818	SPV.0060 Special 48. Reconstruct MMSD Sanitary Sewer Structure	1.000 EACH	_____.____	_____.____
0820	SPV.0060 Special 49. Abandon Sanitary Sewer - Pipe Plug	6.000 EACH	_____.____	_____.____
0822	SPV.0060 Special 50. Construction Staking for Water Main	1.000 EACH	_____.____	_____.____
0824	SPV.0060 Special 51. Water Valve 6-Inch	17.000 EACH	_____.____	_____.____
0826	SPV.0060 Special 52. Water Valve 8-Inch	4.000 EACH	_____.____	_____.____
0828	SPV.0060 Special 53. Water Valve 12-Inch	22.000 EACH	_____.____	_____.____
0830	SPV.0060 Special 54. Hydrant	17.000 EACH	_____.____	_____.____
0832	SPV.0060 Special 55. Salvage and Relocate Hydrant and Valve	2.000 EACH	_____.____	_____.____
0834	SPV.0060 Special 56. Remove Hydrant and Valve	3.000 EACH	_____.____	_____.____
0836	SPV.0060 Special 57. Adjust Water Valve Box Sections	9.000 EACH	_____.____	_____.____
0838	SPV.0060 Special 58. Connect to Existing Water System	3.000 EACH	_____.____	_____.____
0840	SPV.0060 Special 59. Abandon Water Valve	2.000 EACH	_____.____	_____.____
0842	SPV.0060 Special 60. Abandon Existing Water Main	3.000 EACH	_____.____	_____.____
0844	SPV.0060 Special 61. Cap Existing Water Main	1.000 EACH	_____.____	_____.____
0846	SPV.0060 Special 62. Water Utility Line Opening	2.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0848	SPV.0060 Special 64. Water Main Insulation	27.000 EACH	_____.____	_____.____
0850	SPV.0060 Special 65. Clay Anti-Seep Collar	6.000 EACH	_____.____	_____.____
0852	SPV.0060 Special 66. Landmark Reference Monuments Special	1.000 EACH	_____.____	_____.____
0854	SPV.0085 Special 01. Seeding Native Pollinator Mix Upland	42.000 LB	_____.____	_____.____
0856	SPV.0085 Special 02. Seeding Native Pollinator Mix Swale	42.000 LB	_____.____	_____.____
0858	SPV.0090 Special 01. Compost Tubes	1,712.000 LF	_____.____	_____.____
0860	SPV.0090 Special 02. Sign Posts	282.000 LF	_____.____	_____.____
0862	SPV.0090 Special 03. Temporary Rumble Strip (Orange) in Advance of Lane Closure	1,836.000 LF	_____.____	_____.____
0864	SPV.0090 Special 40. Sanitary Sewer Pipe SDR 26 8-Inch	388.000 LF	_____.____	_____.____
0866	SPV.0090 Special 41. Sanitary Sewer Pipe SDR 26 15-Inch	3,501.000 LF	_____.____	_____.____
0868	SPV.0090 Special 42. Select Fill for Sanitary Sewer	6,806.000 LF	_____.____	_____.____
0870	SPV.0090 Special 43. Sanitary Sewer Pipe PVC 10-Inch with Casing	234.000 LF	_____.____	_____.____
0872	SPV.0090 Special 44. Sanitary Sewer Pipe PVC 15-Inch with Casing	208.000 LF	_____.____	_____.____
0874	SPV.0090 Special 45. Utility Trench Patch Type III	605.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0876	SPV.0090 Special 46. Sanitary Sewer Pipe SDR 35 8-Inch	102.000 LF	_____.____	_____.____
0878	SPV.0090 Special 47. Sanitary Sewer Pipe SDR 35 15-Inch	2,373.000 LF	_____.____	_____.____
0880	SPV.0090 Special 50. Water Main 6-Inch	282.000 LF	_____.____	_____.____
0882	SPV.0090 Special 51. Water Main 8-Inch	429.000 LF	_____.____	_____.____
0884	SPV.0090 Special 52. Water Main 12-Inch	6,595.000 LF	_____.____	_____.____
0886	SPV.0090 Special 53. Casing Pipe 24-Inch	341.000 LF	_____.____	_____.____
0888	SPV.0165 Special 01. Wall Concrete Panel Mechanically Stabilized Earth R-13-370	2,041.000 SF	_____.____	_____.____
0890	SPV.0165 Special 02. Wall Concrete Panel Mechanically Stabilized Earth R-13-371	2,026.000 SF	_____.____	_____.____
0892	SPV.0195 Special 01. 3-Inch Clear Stone	4.500 TON	_____.____	_____.____
0894	SPV.0200 Special 40. Construct Inside Drop 8-Inch	14.820 VF	_____.____	_____.____
	Section: 0001		Total:	_____.____

Total Bid: _____.____

PLEASE ATTACH ADDENDA HERE

Wisconsin Department of Transportation

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

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

July 6, 2022

NOTICE TO ALL CONTRACTORS:

Federal Wage Rate Addendum #01

Letting of July 12, 2022

Attached is a copy of the revised WI 10 Highway Davis Bacon Prevailing Wage Rates that are included in proposal 01; WI 8 Heavy (Sewer & Water Line & Tunnel) Davis Bacon Prevailing Wage Rates that are included in Proposal 01. These wage rates are effective for all proposals they are included in in the July 12, 2022 letting. The updated wage rates are dated June 17, 2022 and are effective on or after June 27, 2022.

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

Sincerely,

Mike Coleman
Proposal Development Specialist
Proposal Management Section

"General Decision Number: WI20220010 06/17/2022

Superseded General Decision Number: WI20210010

State: Wisconsin

Construction Type: Highway

Counties: Wisconsin Statewide.

HIGHWAY, AIRPORT RUNWAY & TAXIWAY CONSTRUCTION PROJECTS (does not include bridges over navigable waters; tunnels; buildings in highway rest areas; and railroad construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022

1	01/21/2022
2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	05/13/2022
8	06/17/2022

BRWI0001-002 06/01/2021

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes

BRICKLAYER.....$ 37.78 24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0019-002 06/01/2021

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E.

of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter	$ 33.56	18.00
Millwright	$ 35.08	18.35
Pile Driver	$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER	$ 36.15	20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A	$ 31.03	22.69
Zone B	$ 31.03	22.69

ELEC0014-002 12/26/2021

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 37.83	21.89

ELEC0014-007 05/30/2021

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer		
Installer/Technician	$ 28.50	15.92

Low voltage construction, installation, maintenance and removal of teledata facilities (voice, data, and video) including outside plant, telephone and data inside wire, interconnect, terminal equipment, central offices, PABX, fiber optic cable and equipment, micro waves, V-SAT, bypass, CATV, WAN (wide area networks), LAN (local area networks), and ISDN (integrated systems digital network).

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes

Electricians:
Electrical contracts over $180,000.....$ 33.94 21.80
Electrical contracts under $180,000.....$ 31.75 21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 41.37	69.25%

ELEC0388-002 05/30/2021

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:	$ 36.22	26%+11.24

ELEC0430-002 06/01/2021

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 43.45	24.89

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 44.39	25.67

ELEC0494-006 06/01/2021

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 37.91	22.74

ELEC0494-013 06/01/2021

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupuin), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes

Sound & Communications
     Installer.....$ 22.39 18.80
     Technician.....$ 32.49 20.26

  Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillion, antenna distribution systems, clock and program systems and low-voltage systems such as visual nurse call, audio/visual nurse call systems, doctors entrance register systems. Includes all wire and cable carrying audio, visual, data, light and radio frequency signals. Includes the installation of conduit, wiremold, or raceways in existing structures that have been occupied for six months or more where required for the protection of the wire or cable, but does not mean a complete conduit or raceway system. work covered does not include the installation of conduit, wiremold or any raceways in any new construction, or the installation of power supply outlets by means of which external electric power is supplied to any of the foregoing equipment or products

---

 ELEC0577-003 06/01/2021

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

 ELEC0890-003 06/01/2021

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

 ELEC0953-001 06/02/2019

	Rates	Fringes
Line Construction:		
(1) Lineman	$ 47.53	21.43
(2) Heavy Equipment Operator	$ 42.78	19.80
(3) Equipment Operator	$ 38.02	18.40
(4) Heavy Groundman Driver	$ 33.27	16.88
(5) Light Groundman Driver	$ 30.89	16.11
(6) Groundsman	$ 26.14	14.60

---

* ENGI0139-005 06/01/2022

	Rates	Fringes
Power Equipment Operator		

Group 1	$ 49.01	23.55
Group 2	$ 48.51	23.55
Group 3	$ 48.01	23.55
Group 4	$ 47.17	23.55
Group 5	$ 43.39	23.55
Group 6	$ 38.24	23.55

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" protection - $3.00 per hour
EPA Level ""B"" protection - $2.00 per hour
EPA Level ""C"" protection - $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, tower cranes, and derricks with or without attachments with a lifting capacity of over 100 tons; or cranes, tower cranes, and derricks with boom, leads and/or jib lengths measuring 176 feet or longer.

GROUP 2: Cranes, tower cranes and derricks with or without attachments with a lifting capacity of 100 tons or less; or cranes, tower cranes, and derricks with boom, leads, and/or jibs lengths measuring 175 feet or under and Backhoes (excavators) weighing 130,000 lbs and over; caisson rigs; pile driver; dredge operator; dredge engineer; Boat Pilot.

GROUP 3: Mechanic or welder - Heavy duty equipment; cranes with a lifting capacity of 25 tons or under; concrete breaker (manual or remote); vibratory/sonic concrete breaker; concrete laser screed; concrete slipform paver; concrete batch plant operator; concrete pvt. spreader - heavy duty (rubber tired); concrete spreader & distributor; automatic subgrader (concrete); concrete grinder & planing machine; concrete slipform curb & gutter machine; slipform concrete placer; tube finisher; hydro blaster (10,000 psi & over); bridge paver; concrete conveyor system; concrete pump; Rotec type Conveyor; stabilizing mixer (self-propelled); shoulder widener; asphalt plant engineer; bituminious paver; bump cutter & grooving machine; milling machine; screed (bituminous paver); asphalt heater, planer & scarifier; Backhoes (excavators) weighing under 130,000 lbs; grader or motor patrol; tractor (scraper, dozer, pusher, loader); scraper - rubber tired (single or twin engine); endloader; hydraulic backhoe (tractor type); trenching machine; skid rigs; tractor, side boom (heavy); drilling or boring machine (mechanical heavy); roller over 5 tons; percussion or rotary drilling machine; air track; blaster; loading machine (conveyor); tugger; boatmen; winches & A-frames; post driver; material hoist.

GROUP 4: Greaser, roller steel (5 tons or less); roller (pneumatic tired) - self propelled; tractor (mounted or towed compactors & light equipment); shouldering machine; self- propelled chip spreader; concrete spreader; finishing machine; mechanical float; curing machine; power subgrader; joint sawer (multiple blade) belting machine; burlap machine; texturing machine; tractor endloader (rubber tired) - light; jeep digger; forklift; mulcher; launch operator; fireman, environmental burner

GROUP 5: Air compressor; power pack; vibrator hammer and extractor; heavy equipment, leadman; tank car heaters; stump chipper; curb machine operator; Concrete proportioning plants; generators; mudjack operator; rock breaker; crusher or screening plant; screed (milling

machine); automatic belt conveyor and surge bin; pug mill operator; Oiler, pump (over 3 inches); Drilling Machine Tender, day light machine

GROUP 6: Off-road material hauler with or without ejector.

IRON0008-002 06/01/2021

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 38.77	28.15

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

---

* IRON0383-001 06/05/2022

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.00	28.58

IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

IRON0512-008 06/03/2019

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER	$ 37.60	29.40

IRON0512-021 05/03/2021

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER	$ 35.09	31.80

---

* LABO0113-002 06/01/2022

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 32.65	23.09
Group 2	$ 32.80	23.09
Group 3	$ 33.00	23.09
Group 4	$ 33.15	23.09
Group 5	$ 33.30	23.09
Group 6	$ 29.14	23.09

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagperson; traffic control person

---

* LABO0113-003 06/01/2022

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.90	23.09
Group 2	$ 32.00	23.09
Group 3	$ 32.05	23.09

Group 4	$ 32.25	23.09
Group 5	$ 32.10	23.09
Group 6	$ 28.99	23.09

LABORERS CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated);

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson and Traffic Control Person

---

* LABO0113-011 06/01/2022

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 31.71	23.09
Group 2	$ 31.86	23.09
Group 3	$ 32.06	23.09
Group 4	$ 32.03	23.09
Group 5	$ 32.36	23.09
Group 6	$ 28.85	23.09

LABORERS CLASSIFICATIONS:

GROUP 1: General laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster and Powderman

GROUP 6: Flagman; traffic control person

---

* LABO0140-002 06/01/2022

ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN, BUFFALO, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DOUGLAS, DUNN, EAU CLAIRE, FLORENCE, FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IRON, JACKSON, JUNEAU, IOWA, JEFFERSON, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST. CROIX, TAYLOR, TREMPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 32.20	18.68
Group 2	$ 33.82	17.95
Group 3	$ 33.87	17.95
Group 4	$ 34.07	17.95
Group 5	$ 33.92	17.95
Group 6	$ 30.35	17.95

LABORER CLASSIFICATIONS

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bitminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminous Worker (Dumper, Ironer, Smoother and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator, Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk and Pavement); Strike Off Man

GROUP 4: Line and Grade Secialist

GROUP 5: Blaster; powderman

GROUP 6: Flagperson; Traffic Control

LABO0464-003 06/01/2020

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1	$ 34.00	17.95
Group 2	$ 34.10	17.95
Group 3	$ 34.15	17.95
Group 4	$ 34.35	17.95
Group 5	$ 34.20	17.95
Group 6	$ 30.35	17.95

LABORERS CLASSIFICATIONS:

GROUP 1: General Laborer; Tree Trimmer; Conduit Layer; Demolition and Wrecking Laborer; Guard Rail, Fence, and Bridge Builder; Landscaper; Multiplate Culvert Assembler; Stone Handler; Bituminous Worker (Shoveler, Loader, and Utility Man); Batch Truck Dumper or Cement Handler; Bituminious Worker (Dumper, Ironer, Smoother, and Tamper); Concrete Handler

GROUP 2: Air Tool Operator; Joint Sawer and Filler (Pavement); Vibrator or Tamper Operator (Mechanical Hand Operated); Chain Saw Operator; Demolition Burning Torch Laborer

GROUP 3: Bituminous Worker (Raker and Luteman); Formsetter (Curb, Sidewalk, and Pavement); Strike Off Man

GROUP 4: Line and Grade Specialist

GROUP 5: Blaster; Powderman

GROUP 6: Flagperson and Traffic Control Person

PAIN0106-008 05/01/2022

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller	$ 33.99	22.70
Spray, Sandblast, Steel	$ 34.59	22.70
Repaint:		
Brush, Roller	$ 33.09	22.70
Spray, Sandblast, Steel	$ 32.49	22.70

PAIN0108-002 06/01/2021

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller	$ 36.08	20.36
Spray & Sandblast	$ 37.52	23.27

PAIN0259-002 05/01/2008

BARRON, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, SAWYER, ST. CROIX, AND WASHBURN COUNTIES

	Rates	Fringes
PAINTER	$ 24.11	12.15

PAIN0259-004 05/01/2015

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
PAINTER	$ 22.03	12.45

PAIN0781-002 06/01/2021

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge	$ 36.70	24.50
Brush	$ 35.95	24.50
Spray & Sandblast	$ 36.70	24.50

PAIN0802-002 06/01/2021

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND, ROCK, AND SAUK COUNTIES

	Rates	Fringes
PAINTER		
Brush	$ 29.98	18.78

PREMIUM PAY:
Structural Steel, Spray, Bridges = $1.00 additional per hour.

PAIN0802-003 06/01/2021

ADAMS, BROWN, CALUMET, CLARK, DOOR, FOND DU LAC, FOREST, GREEN LAKE, IRON, JUNEAU, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, PORTAGE, PRICE, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WAUSHARA, WAUPACA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
PAINTER	$ 29.98	18.78

PAIN0934-001 06/01/2021

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush	$ 36.52	23.27
Spray	$ 37.52	23.27
Structural Steel	$ 36.67	23.27

PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:	$ 26.71	14.38

PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 32.72	23.81
WELL DRILLER	$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is

like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a

new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISIO"

"General Decision Number: WI20220008 06/17/2022

Superseded General Decision Number: WI20210008

State: Wisconsin

Construction Types: Heavy (Sewer and Water Line and Tunnel)

Counties: Wisconsin Statewide.

TUNNEL, SEWER & WATER LINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at https://www.dol.gov/agencies/whd/government-contracts.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

2	02/04/2022
3	02/25/2022
4	03/11/2022
5	03/18/2022
6	04/29/2022
7	06/17/2022

BRWI0001-002 06/01/2021

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.81	25.17

BRWI0002-002 06/01/2021

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 44.35	23.89

BRWI0002-005 06/01/2021

ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 37.73	24.15

BRWI0003-002 06/01/2021

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0004-002 06/01/2021

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER	$ 41.30	26.03

BRWI0006-002 06/01/2021

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.78	24.20

BRWI0007-002 06/01/2021

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.38	25.31

BRWI0008-002 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER	$ 42.38	24.64

BRWI0009-001 06/01/2021

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0011-002 06/01/2021

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.03	24.95

BRWI0013-002 06/01/2021

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

BRWI0019-002 06/01/2021

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN, PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER	$ 36.31	25.67

BRWI0021-002 06/01/2021

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER	$ 37.75	25.92

BRWI0034-002 06/01/2021

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER	$ 38.53	25.16

CARP0087-001 05/01/2016

BURNETT (W. of Hwy 48), PIERCE (W. of Hwy 29), POLK (W. of Hwys 35, 48 & 65), AND ST. CROIX (W. of Hwy 65) COUNTIES

	Rates	Fringes
Carpenter & Piledrivermen	$ 36.85	18.39

CARP0252-002 06/01/2016

ADAMS, BARRON, BAYFIELD (Eastern 2/3), BROWN, BUFFALO, BURNETT (E. of Hwy 48), CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DANE, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE (except area bordering Michigan State Line), FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, IRON, JACKSON, JEFFERSON, JUNEAU, KEWAUNEE, LA CROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE (except N.E. corner), MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE (E. of Hwys 29 & 65), POLK (E. of Hwys 35, 48 & 65), PORTAGE, PRICE, RICHLAND, ROCK, RUSK, SAUK, SAWYER, SHAWANO, SHEBOYGAN, ST CROIX (E. of Hwy 65), TAYLOR, TREMPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
CARPENTER		
CARPENTER	$ 33.56	18.00
MILLWRIGHT	$ 35.08	18.35
PILEDRIVER	$ 34.12	18.00

CARP0252-010 06/01/2016

ASHLAND COUNTY

	Rates	Fringes
Carpenters		
Carpenter	$ 33.56	18.00
Millwright	$ 35.08	18.35
Pile Driver	$ 34.12	18.00

CARP0264-003 06/01/2016

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON COUNTIES

	Rates	Fringes
CARPENTER	$ 35.78	22.11

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes

CARPENTER.....$ 36.15 20.43

CARP2337-001 06/01/2016

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON

ZONE B: KENOSHA & RACINE

	Rates	Fringes
PILEDRIVERMAN		
Zone A	$ 31.03	22.69
Zone B	$ 31.03	22.69

CARP2337-003 06/01/2019

	Rates	Fringes
MILLWRIGHT		
Zone A	$ 33.58	21.53
Zone B	$ 33.58	21.53

ZONE DEFINITIONS

ZONE A: MILWAUKEE, OZAUKEE, WAUKESHA AND WASHINGTON COUNTIES

ZONE B: KENOSHA & RACINE COUNTIES

ELEC0014-002 12/26/2021

ASHLAND, BARRON, BAYFIELD, BUFFALO, BURNETT, CHIPPEWA, CLARK (except Maryville, Colby, Unity, Sherman, Fremont, Lynn & Sherwood), CRAWFORD, DUNN, EAU CLAIRE, GRANT, IRON, JACKSON, LA CROSSE, MONROE, PEPIN, PIERCE, POLK, PRICE, RICHLAND, RUSK, ST CROIX, SAWYER, TAYLOR, TREMPEALEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:	$ 37.83	21.89

ELEC0127-002 06/01/2021

KENOSHA COUNTY

	Rates	Fringes
Electricians:	$ 43.16	30%+12.70

ELEC0158-002 05/30/2021

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausuakee and area South thereof), OCONTO, MENOMINEE (East of a ine 6 miles West of the West boundary of Oconto County), SHAWANO (Except Area North of Townships of Aniwa and Hutchins) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 36.14	29.75%+10.26

ELEC0159-003 05/30/2021

COLUMBIA, DANE, DODGE (Area West of Hwy 26, except Chester and Emmet Townships), GREEN, LAKE (except Townships of Berlin, Seneca, and St. Marie), IOWA, MARQUETTE (except Townships of Neshkoka, Crystal Lake, Newton, and Springfield), and SAUK COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 43.38	23.13

ELEC0219-004 06/01/2019

FLORENCE COUNTY (Townships of Aurora, Commonwealth, Fern, Florence and Homestead) AND MARINETTE COUNTY (Township of Niagara)

	Rates	Fringes
Electricians:		
Electrical contracts over $180,000	$ 33.94	21.80
Electrical contracts under $180,000	$ 31.75	21.73

ELEC0242-005 05/30/2021

DOUGLAS COUNTY

	Rates	Fringes
Electricians:	$ 41.37	69.25%

ELEC0388-002 05/30/2021

ADAMS, CLARK (Colby, Freemont, Lynn, Mayville, Sherman, Sherwood, Unity), FOREST, JUNEAU, LANGLADE, LINCOLN, MARATHON, MARINETTE (Beecher, Dunbar, Goodman & Pembine), MENOMINEE (Area West of a line 6 miles West of the West boundary of Oconto County), ONEIDA, PORTAGE, SHAWANO (Aniwa and Hutchins), VILAS AND WOOD COUNTIES

	Rates	Fringes
Electricians:	$ 36.22	26%+11.24

ELEC0430-002 06/01/2021

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:	$ 43.45	24.89

ELEC0494-005 06/01/2021

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:	$ 44.39	25.67

ELEC0494-006 06/01/2021

CALUMET (Township of New Holstein), DODGE (East of Hwy 26 including Chester Township), FOND DU LAC, MANITOWOC (Schleswig), and SHEBOYGAN COUNTIES

	Rates	Fringes
Electricians:	$ 37.91	22.74

ELEC0577-003 06/01/2021

CALUMET (except Township of New Holstein), GREEN LAKE (N. part including Townships of Berlin, St Marie, and Seneca), MARQUETTE (N. part including Townships of Crystal Lake, Neshkoro, Newton, and Springfield), OUTAGAMIE, WAUPACA, WAUSHARA, AND WINNEBAGO COUNTIES

	Rates	Fringes
Electricians:	$ 35.66	29.50%+10.00

ELEC0890-003 06/01/2021

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:	$ 39.00	25.95%+11.17

---

* ENGI0139-003 06/01/2022

REMAINING COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 44.27	23.55
Group 2	$ 43.02	23.55
Group 3	$ 40.97	23.55
Group 4	$ 47.17	23.55
Group 5	$ 43.39	23.55
Group 6	$ 38.24	23.55

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of over 100 tons; Cranes, Tower Cranes, and Derricks with boom, leads and/or jib lengths 176 ft or longer.

GROUP 2: Backhoes (Excavators) weighing 130,00 lbs and over; Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or less; Cranes, Tower Cranes, and Derricks with boom, leads, and/or

jib lengths 175 ft or less; Caisson Rigs; Pile Driver

GROUP 3: Backhoes (Excavators) weighing under 130,000 lbs; Travelling Crane (bridge type); Milling Machine; Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Laser Screed; Concrete Grinder and Planing Machine; Slipform Curb and Gutter Machine; Boring Machine (Directional); Dredge Operator; Skid Rigs; over 46 meter Concrete Pump.

GROUP 4: Hydraulic Backhoe (tractor or truck mounted); Hydraulic Crane, 10 tons or less; Tractor, Bulldozer, or End Loader (over 40 hp); Motor Patrol; Scraper Operator; Bituminous Plant and Paver Operator; Screed-Milling Machine; Roller over 5 tons; Concrete pumps 46 meter and under; Grout Pumps; Rotec type machine; Hydro Blaster, 10,000 psi and over; Rotary Drill Operator; Percussion Drilling Machine; Air Track Drill with or without integral hammer; Blaster; Boring Machine (vertical or horizontal); Side Boom; Trencher, wheel type or chain type having 8 inch or larger bucket; Rail Leveling Machine (Railroad); Tie Placer; Tie Extractor; Tie Tamper; Stone Leveler; Straddle Carrier; Material Hoists; Stack Hoist; Man Hoists; Mechanic and Welder; Off Road Material Haulers.

GROUP 5: Tractor, Bulldozer, or Endloader (under 40 hp); Tampers -Compactors, riding type; Stump Chipper, large; Roller, Rubber Tire; Backfiller; Trencher, chain type (bucket under 8 inch); Concrete Auto Breaker, large; Concrete Finishing Machine (road type); Concrete Batch Hopper; Concrete Conveyor Systems; Concrete Mixers, 14S or over; Pumps, Screw Type and Gypsum); Hydrohammers, small; Brooms and Sweeeprs; Lift Slab Machine; Roller under 5 tons; Industrial Locomotives; Fireman (Pile Drivers and Derricks); Pumps (well points); Hoists, automatic; A-Frames and Winch Trucks; Hoists (tuggers); Boats (Tug, Safety, Work Barges and Launches); Assistant Engineer

GROUP 6: Shouldering Machine Operator; Farm or Industrial Tractor mounted equipment; Post Hole Digger; Auger (vertical and horizontal); Skid Steer Loader with or without attachments; Robotic Tool Carrier with or without attachments; Power Pack Vibratory/Ultra Sound Driver and Extractor; Fireman (Asphalt Plants); Screed Operator; Stone Crushers and Screening Plants; Air, Electric, Hydraulic Jacks (Slip Form); Prestress Machines; Air Compressor, 400 CFM or over; Refrigeration Plant/Freese Machine; Boiler Operators (temporary heat); Forklifts; Welding Machines; Generators; Pumps over 3""; Heaters, Mechanical; Combination small equipment operator; Winches, small electric; Oiler; Greaser; Rotary Drill Tender; Conveyor; Elevator Operator

---

* ENGI0139-007 06/01/2022

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE, RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1	$ 49.01	23.55
Group 2	$ 48.51	23.55
Group 3	$ 48.01	23.55

Group 4	$ 47.14	23.55
Group 5	$ 43.39	23.55

HAZARDOUS WASTE PREMIUMS:
EPA Level ""A"" Protection: $3.00 per hour
EPA Level ""B"" Protection: $2.00 per hour
EPA Level ""C"" Protection: $1.00 per hour

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, Tower Cranes, and Derricks with or without attachments, with a lifting capacity of over 100 tons; or Cranes, Tower Cranes, and Derricks with boom, leads, and/or jib lengths measuring 176 feet or longer; Backhoes (Excavators) 130,000 lbs and over; Caisson Rigs and Pile Drivers

GROUP 2: Cranes, Tower Cranes and Derricks with or without attachments with a lifting capacity of 100 tons or under; or Cranes, Tower Cranes, and Derricks with boom, lead, and\or jib lengths measuring 175 feet or under; Backhoes (Excavators) under 130,000 lbs; Skid Rigs; Dredge Operator: Traveling Crane (Bridge type); Concrete Paver over 27 E; Concrete Spreader and Distributor; Concrete Pumps and Boring Machines (directional)

GROUP 3: Material Hoists; Stack Hoists; Tractor or Truck mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane, 5 tons or under; Manhoist; Tractor over 40 hp; Bulldozer over 40 hp; Endloader over 40 hp; Forklift, 25 ft and over; Motor Patrol; Scraper Operator; Sideboom; Straddle Carrier; Mechanic and Welder; Bituminous Plant and Paver Operator; Roller over 5 tons; Percussion Drill Operator; Rotary Drill Operator; Blaster; Air Track Drill; Trencher (wheel type or chain type having over 8 inch bucket); Elevator; Milling Machine and Boring Machine (horizontal or vertical); Backhoe Mounted Compactor

GROUP 4: Backfiller; Concrete Auto Breaker (large); Concrete Finishing Machine (road type); Roller, Rubber Tire; Concrete Batch Hopper; Concrete Conveyor System; Concrete Mixers (14S or over); Screw type Pumps and Gypsum Pumps; Grout Pumps; Tractor, Bulldozer, End Loader, under 40 hp; Pumps (well points); Trencher (chain type 8 inch or smaller bucket; Industrial Locomotives; Roller under 5 tons; Fireman (Piledrivers and Derricks); Robotic Tool Carrier with or without attachments.

GROUP 5: Hoists (Automatic); Forklift, 12 ft to 25 ft; Tamper-Compactors, riding type; A-Frame andWinch Trucks; Concrete Auto Breaker; Hydrohammer, small; Brooms and Sweepers; Hoist (Tuggers); Stump Chipper, large; Boats (Tug, Safety, Work Barges and Launch); Shouldering Machine Operator; Screed Operator; Farm or Industrial Tractor; Post Hole Digger; Stone Crushers and Screening Plants; Firemen (Asphalt Plants); Air Compressor (400 CFM or over); Augers (vertical and horizontal); Generators, 150 KW and over; Air, Electric Hydraulic Jacks (Slipform); Prestress Machines; Skid Steer Loader with or without attachments; Boiler operators (temporary heat); Forklift, 12 ft and under; Screed Operator Milling Machine; Refrigeration Plant/Freeze Machine; Power Pack Vibratory/Ultra Sound Driver and Extractor; Generators under 150 KW; Combination small equipment operator; Compressors under 400 CFM; Welding Machines; Heaters, Mechanical; Pumps; Winches,

Small Electric; Oiler and Greaser; Conveyor; High pressure utility locating machine (daylighting machine).

IRON0008-002 06/01/2021

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER	$ 38.77	28.15

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2021

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER	$ 40.57	28.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

---

* IRON0383-001 06/05/2022

ADAMS, COLUMBIA, CRAWFORD, DANE, DODGE, FLORENCE, FOREST, GRANT, GREENE, (Excluding S.E. tip), GREEN LAKE, IOWA, JEFFERSON, JUNEAU, LA CROSSE, LAFAYETTE, LANGLADE, MARATHON, MARQUETTE, MENOMINEE, MONROE, PORTAGE, RICHLAND, ROCK (Northern area, vicinity of Edgerton and Milton), SAUK, VERNON, WAUPACA, WAUSHARA, AND WOOD COUNTIES

	Rates	Fringes
IRONWORKER	$ 39.00	28.58

IRON0498-005 06/01/2021

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER	$ 41.37	44.41

IRON0512-008 06/03/2019

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPEALEAU COUNTIES

	Rates	Fringes

IRONWORKER.....$ 37.60 29.40

IRON0512-021 05/03/2021

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	$ 35.09	31.80

LABO0113-004 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	$ 16.38	21.08
Group 2.....	$ 18.65	21.08
Group 3.....	$ 22.19	21.08
Group 4.....	$ 31.56	21.08
Group 5.....	$ 31.70	21.08
Group 6.....	$ 31.76	21.08
Group 7.....	$ 34.77	21.08
Group 8.....	$ 37.59	21.08
Group 9.....	$ 38.23	21.08

LABORERS CLASSIFICATIONS [OPEN CUT]

GROUP 1: Yard Laborer

GROUP 2: Landscaper

GROUP 3: Flag Person

GROUP 4: Paving Laborer

GROUP 5: General Laborer on Surface; Top Man

GROUP 6: Mud Mixer

GROUP 7: Mucker; Form Stripper; Bottom Digger and Misc; Bottom Man and Welder on Surface

GROUP 8: Concrete Manhole Builder; Caisson Worker; Miner; Pipe Layer; Rock Driller and Joint Man; Timber Man and Concrete Brusher; Bracer in Trench Behind Machine & Tight Sheeting; Concrete Formsetter and Shoveler; Jackhammer Operator

GROUP 9: Blaster

LABO0113-005 06/01/2020

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		

Group 1	$ 23.05	21.08
Group 2	$ 28.98	21.08
Group 3	$ 32.34	21.08
Group 4	$ 34.11	21.08

TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: Top Man, General Laborer, Wellpoint Installation, Wire Mesh and Reinforcement, Concrete Worker, Form Stripper, Strike-off Work

GROUP 3: Machine and Equipment Operator, Sheeting, Form Setting, Patch Finisher, Bottom Man, Joint Sawer, Gunnite Man, Manhole Builder, Welder-Torchman, Blaster, Caulker, Bracer, Bull Float, Conduit Worker, Mucker and Car Pusher, Raker and Luteman, Hydraulic Jacking of Shields, Shield Drivers, Mining Machine, Lock Tenders, Mucking Machine Operator, Motor Men & Gauge Tenders and operation of incidental Mechanical Equipment and all Power Driven Tools

GROUP 4: Pipelayer, Miner and Laser Operator

LABO0113-008 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1	$ 22.19	21.08
Group 2	$ 31.70	21.08
Group 3	$ 31.76	21.08
Group 4	$ 34.77	21.08
Group 5	$ 34.91	21.08
Group 6	$ 37.59	21.08
Group 7	$ 38.23	21.08

LABORERS CLASSIFICATIONS [TUNNEL - FREE AIR]:

GROUP 1: Flagperson

GROUP 2: General Laborer on surface; Tower Man

GROUP 3: Saw Man; Top Man

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey; Welder (rate on surface)

GROUP 6: Concrete Manhole Builder; Mucking Machine; Miner; Mining Machine; Welder; Rock Driller; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pipelayer and Joint Man; Bracerman

GROUP 7: Blaster

---

* LABO0113-009 06/01/2020

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel - *COMPRESSED AIR 0 - 15 lbs.)		
Group 1	$ 22.19	21.08
Group 2	$ 31.70	21.08
Group 3	$ 35.31	21.08
Group 4	$ 36.11	21.08
Group 5	$ 36.23	21.08
Group 6	$ 38.93	21.08
Group 7	$ 39.55	21.08

LABORERS CLASSIFICATIONS [TUNNEL - COMPRESSED AIR]:

*Compressed Air 15 - 30 lbs add $2.00 to all classifications
*Compressed Air over 30 lbs add $3.00 to all classifcations

GROUP 1: Flagperson

GROUP 2: General Laborer on surface

GROUP 3: Lock Tender on surface

GROUP 4: Form Stripper; Car Pusher

GROUP 5: Mucker; Dinkey

GROUP 6: Mucking Machine; Miner; Mining Machine; Welder & Rock Driller; Lock Tender in tunnel; Concrete Buster; Jack Hammer Operator; Caisson Worker; Pielayer and Joint Man; Bracerman; Nozzle Man on Gunite; Timber Man; Concrete Brusher

GROUP 7: Blaster

NOTE: Hazardous & Toxic Waste Removal: add $0.15 per hour.

---

* LABO0140-005 06/01/2022

ADAMS, ASHLAND, BARRON, BROWN, BUFFALO, CALUMET, CHIPPEWA, CLARK, COLUMBIA, CRAWFORD, DODGE, DOOR, DUNN, EAU CLAIRE, FLORENCE,FOND DU LAC, FOREST, GRANT, GREEN, GREEN LAKE, IOWA, JACKSON, JEFFERSON, JUNEAU, LACROSSE, LAFAYETTE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, MONROE, OCONTO, ONEIDA, OUTAGAMIE, PEPIN, PIERCE, POLK, PORTAGE, PRICE, RICHLAND, ROCK, RUSK, ST CROIX, SAUK, SAWYER, SHAWANO, SHEBOYGAN, TAYLOR, TREMMPEALEAU, VERNON, VILAS, WALWWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1	$ 29.33	17.88
Group 2	$ 32.20	18.68
Group 3	$ 31.48	17.88
Group 4	$ 32.13	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0-15 lbs add $1.00,

15-30 lbs add $2.00, over 30 lbs add $3.00

LABORER CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Drivers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

---

* LABO0464-002 06/01/2022

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1	$ 29.23	17.88
Group 2	$ 32.20	18.68
Group 3	$ 31.63	17.88
Group 4	$ 32.38	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR: 0 - 15 lbs add $1.00, 15- 30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: General Laborer; Wellpoint Installation; Concrete Worker; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Dirvers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

LABO1091-010 06/01/2020

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1	$ 29.02	17.88
Group 2	$ 31.08	17.88
Group 3	$ 31.28	17.88
Group 4	$ 32.03	17.88

FOR ALL TUNNEL WORK UNDER COMPRESSED AIR:
0 - 15 lbs add $1.00, 15-30 lbs add $2.00, over 30 lbs add $3.00

LABORERS CLASSIFICATIONS:

GROUP 1: Flagperson

GROUP 2: Laborers, Wellpoint Installation; Form Stripper; Strike Off worker

GROUP 3: Sheeting Formsetting; Patch Finisher; Bottom Man; Joint Sawer; Gunnite Man; Manhole Builder; Welder; Torchman; Blaster; Caulker Bracer; Bull Float; Mucker and Car Pusher; Raker and Luteman; Hydraulic jacking of shields, Shield Dirvers; Mining Machine; Lock Tenders; Mucking Machine Operators; Motor Men and Gauge Tenders; Power Tool Operators

GROUP 4: Pipelayer, Miner, and Laser Operator

PLAS0599-010 06/01/2021

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area 1	$ 42.06	20.87
Area 2 (BAC)	$ 37.73	23.80
Area 3	$ 38.74	22.46
Area 4	$ 38.59	22.66
Area 5	$ 38.16	22.98
Area 6	$ 34.94	26.36

AREA DESCRIPTIONS

AREA 1: BAYFIELD, DOUGLAS, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA 2: ADAMS, ASHLAND, BARRON, BROWN, BURNETT, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, IRON, JEFFERSON, KEWAUNEE, LANGLADE, LINCOLN, MANITOWOC, MARATHON, MARINETTE, MARQUETTE, MENOMINEE, OCONTO, ONEIDA, OUTAGAMIE, POLK, PORTAGE, RUSK, ST CROIX, SAUK, SHAWANO, SHEBOYGAN, TAYLOR, VILAS, WALWORTH, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

AREA 3: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE MONROE, PEPIN, PIERCE, RICHLAND, TREMPEALEAU, AND VERNON COUNTIES

AREA 4: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA 5: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA 6: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2021

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles	$ 32.57	23.81
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic	$ 32.72	23.81
WELL DRILLER	$ 16.52	3.70

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing

the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described

in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

===

END OF GENERAL DECISIO"

Wisconsin Department of Transportation

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

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

June 28, 2022

NOTICE TO ALL CONTRACTORS:

Proposal #01: **3080-01-40, N/A**
Madison - Cambridge
CTH AB Overpass
USH 12
Dane County

3080-01-75, WISC 2022450
Madison - Cambridge
CTH AB Overpass
USH 12
Dane County

3080-01-76, WISC 2022451
Madison - Cambridge
CTH AB Interchange
USH 12
Dane County

Letting of July 12, 2022

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

Special Provisions:

Revised Special Provisions	
Article No.	Description
49	General Provisions for City of Madison Storm Sewer.

Added Special Provisions	
Article No.	Description
133	CIP Outlet Control Structure Pond A, Item SPV.0060.67; CIP Outlet Control Structure Pond B, Item SPV.0060.68.
134	Outlet Control Structure Pond C, Item SPV.0060.12; Outlet Control Structure Pond D, Item SPV.0060.14.

Deleted Special Provisions	
Article No.	Description
36	Removing Chain Link Gate, Item 204.9060.S.01
80	Outlet Control Structure Pond A, Item SPV.0060.10; Outlet Control Structure Pond B, Item SPV.0060.11; Outlet Control Structure Pond C, Item SPV.0060.12; Outlet Control Structure Pond D, Item SPV.0060.14.

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.0170	Removing Fence	LF	15,641	-1,454	14,187
521.1018	Apron Endwalls for Culvert Pipe Steel 18-inch	Each	12	-8	4
521.3118	Culvert Pipe Corrugated Steel 18-inch	LF	174	-92	82
522.0124	Culvert Pipe Reinforced Concrete Class III 24-inch	LF	544	-174	370
522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-inch	Each	9	-1	8
522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-inch	Each	31	-3	28
522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-inch	Each	22	-5	17
522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-inch	Each	8	-2	6
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-inch	LF	1,919	-635	1,284
608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-inch	LF	1,210	-210	1,000
608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-inch	LF	1,018	-457	561
646.7120	Marking Diagonal Epoxy 12-inch	LF	540	140	680

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
520.1012	Apron Endwalls for Culvert Pipe 12-inch	Each	0	1	1
520.1018	Apron Endwalls for Culvert Pipe 18-inch	Each	0	14	14
520.1024	Apron Endwalls for Culvert Pipe 24-inch	Each	0	4	4
520.1030	Apron Endwalls for Culvert Pipe 30-inch	Each	0	2	2
520.3318	Culvert Pipe Class III-A 18-inch	LF	0	174	174
520.3324	Culvert Pipe Class III-A 24-inch	LF	0	174	174
608.3012	Storm Sewer Pipe Class III-A 12-inch	LF	0	594	594
608.3018	Storm Sewer Pipe Class III-A 18-inch	LF	0	391	391
608.3024	Storm Sewer Pipe Class III-A 24-inch	LF	0	97	97
608.3030	Storm Sewer Pipe Class III-A 30-inch	LF	0	124	124
SPV.0060.67	CIP Outlet Control Structure Pond A	Each	0	1	1
SPV.0060.68	CIP Outlet Control Structure Pond B	Each	0	1	1

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
204.9060.S.01	Removing Chain Link Gate	Each	1	-1	0
608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-inch	LF	124	-124	0
SPV.0060.10	Outlet Control Structure Pond A	Each	1	-1	0
SPV.0060.11	Outlet Control Structure Pond B	Each	1	-1	0

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
34	Construction Detail-Millpond Infield-Optional Waste Site (increased top slope along alignment from 1% to 2%)
42	Drainage Pond Detail (revised item name callouts)
43	Drainage Pond Detail (revised item name callout)
44	Drainage Pond Detail (revised item name callout)
80	Removal Plan (revised removing fence limits)
190	Storm Sewer: CTH AB/Millpond Road (revised SS pipe & AEW materials)
191	Storm Sewer: CTH AB (revised SS pipe & AEW materials)
192	Storm Sewer: CTH AB (revised SS pipe & AEW materials)
196	Storm Sewer: CTH AB (revised SS pipe & AEW materials)
197	Storm Sewer: CTH AB (revised SS pipe & AEW materials)
307	Pavement Marking (added Marking Diagonal Epoxy 12-inch to Millpond Road)
474	Miscellaneous Quantities (switched bid item for culvert pipes)
477	Miscellaneous Quantities (switched bid items for SS pipes)
478	Miscellaneous Quantities (switched bid items for SS pipes)
479	Miscellaneous Quantities (switched bid items for SS AEWs)
481	Miscellaneous Quantities (switched bid items for SS AEWs)
493	Miscellaneous Quantities (revised table for removing fence/gate)
509	Miscellaneous Quantities (switched bid item for culvert pipes)
515	Miscellaneous Quantities (revised item names in Pond A and Pond B drainage tables)
548	Miscellaneous Quantities (revised quantity for Marking Diagonal Epoxy 12-inch)
585	Plan and Profile: CTH AB – 'NB' (revised culvert pipe material)
588	Plan and Profile: CTH AB – 'SB' (revised culvert pipe material)
599	Plan and Profile: Millpond Road (added culvert callout in profile)
1323	Cross Sections: Millpond Infield (revised elevations for top of waste site)
1324	Cross Sections: Millpond Infield (revised elevations for top of waste site)
1325	Cross Sections: Millpond Infield (revised elevations for top of waste site)
1326	Cross Sections: Millpond Infield (revised elevations for top of waste site)
1327	Cross Sections: Millpond Infield (revised elevations for top of waste site)

Other

ASP-5 has been revised and is added to this addendum.

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

3080-01-40/3080-01-75/3080-01-76

June 28, 2022

Special Provisions

36. Deleted

49. General Provisions for City of Madison Storm Sewer

Replace paragraph six with the following:

Construct catch basins, manholes and inlets using the cast in place concrete masonry option. All structures shall be reinforced concrete. Concrete brick and block options are prohibited.

80. Deleted

133. CIP Outlet Control Structure Pond A, Item SPV.0060.67; CIP Outlet Control Structure Pond B, Item SPV.0060.68.

A Description

Furnish and install a CIP Outlet Control Structure Pond according to the pertinent provisions of standard spec 611, the general provisions for City of Madison Storm Sewer, the as shown on the plans, and as hereinafter provided. Furnish and install a trash rack on the outlet control structure and according to the pertinent provisions of standard spec 506 and 513, as shown on the plans and as hereinafter provided. Provide orifice holes and PVC pipe and fittings as shown on the plan. Provide concrete to fill the bottom of the structure as shown on the plans.

B Materials

Furnish manhole materials according to standard spec 611.

Furnish concrete according to applicable provisions of standard spec 501.

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel galvanizing according to ASTM A123 and ASTM 1153 as applicable.

Trash rack shall be fabricated from structural steel shapes, flat bar and plates, and shall be galvanized after fabrication. Shop drawings for the trash rack shall be submitted to the engineer for approval prior to fabricating the trash rack.

Furnish bolts, nuts and washers for the installation of the trash rack onto the outlet control structure according to standard spec 513.2.1.

C Construction

Construct CIP Outlet Control Structure Pond according to the applicable provisions of standard spec 611.3.

D Measurement

The department will measure CIP Outlet Control Structure Pond as each individual structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.67	CIP Outlet Control Structure Pond A	EACH
SPV.0060.68	CIP Outlet Control Structure Pond B	EACH

Payment is full compensation for providing and placing all materials, including all masonry, steel and pipe connections, and other fittings; furnishing and installing trash rack; for providing orifice hole, PVC, and fittings; for furnishing, placing, protecting and curing concrete to fill the structure bottom; for furnishing all excavating, backfilling, disposing of surplus material, and cleaning out of structure.

Work associated with constructing the clay anti-seep collar will be paid for separately.

134. Outlet Control Structure Pond C, Item SPV.0060.12; Outlet Control Structure Pond D, Item SPV.0060.14.

A Description

Furnish and install an Outlet Control Structure Pond according to the pertinent provisions of standard spec 611, as shown on the plans, and as hereinafter provided. Furnish and install a trash rack on the outlet control structure and according to the pertinent provisions of standard spec 506 and 513, as shown on the plans and as hereinafter provided. Provide orifice holes and PVC pipe and fittings as shown on the plan. Provide concrete to fill the bottom of the structure as shown on the plans.

B Materials

Furnish manhole materials according to standard spec 611.

Furnish concrete according to applicable provisions of standard spec 501.

Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel galvanizing according to ASTM A123 and ASTM 1153 as applicable.

Trash rack shall be fabricated from structural steel shapes, flat bar and plates, and shall be galvanized after fabrication. Shop drawings for the trash rack shall be submitted to the engineer for approval prior to fabricating the trash rack.

Furnish bolts, nuts and washers for the installation of the trash rack onto the outlet control structure according to standard spec 513.2.1.

C Construction

Construct Outlet Control Structure Pond according to the applicable provisions of standard spec 611.3.

D Measurement

The department will measure Outlet Control Structure Pond as each individual structure, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.12	Outlet Control Structure Pond C	EACH
SPV.0060.14	Outlet Control Structure Pond D	EACH

Payment is full compensation for providing and placing all materials, including all masonry, steel and pipe connections, and other fittings; furnishing and installing trash rack; for providing orifice hole, PVC, and fittings; for furnishing, placing, protecting and curing concrete to fill the structure bottom; for furnishing all excavating, backfilling, disposing of surplus material, and cleaning out of structure.

Work associated with constructing the clay anti-seep collar will be paid for separately.

Schedule of Items

Attached, dated June 28, 2022, are the revised Schedule of Items Pages 1 – 30.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised 34, 42, 43, 44, 80, 190, 191, 196, 197, 307, 474, 477, 478, 479, 481, 493, 509, 515, 548, 585, 588, 599, 1323, 1324, 1325, 1326 and 1327.

END OF ADDENDUM

ADDITIONAL SPECIAL PROVISIONS 5
FUEL COST ADJUSTMENT

A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

C Fuel Index

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is $5.00 per gallon.

D Computing the Fuel Cost Adjustment

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

(1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.

(2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.

(3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.

(4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left(\frac{CFI}{BFI} - 1 \right) x\, Q\, x\, BFI$$

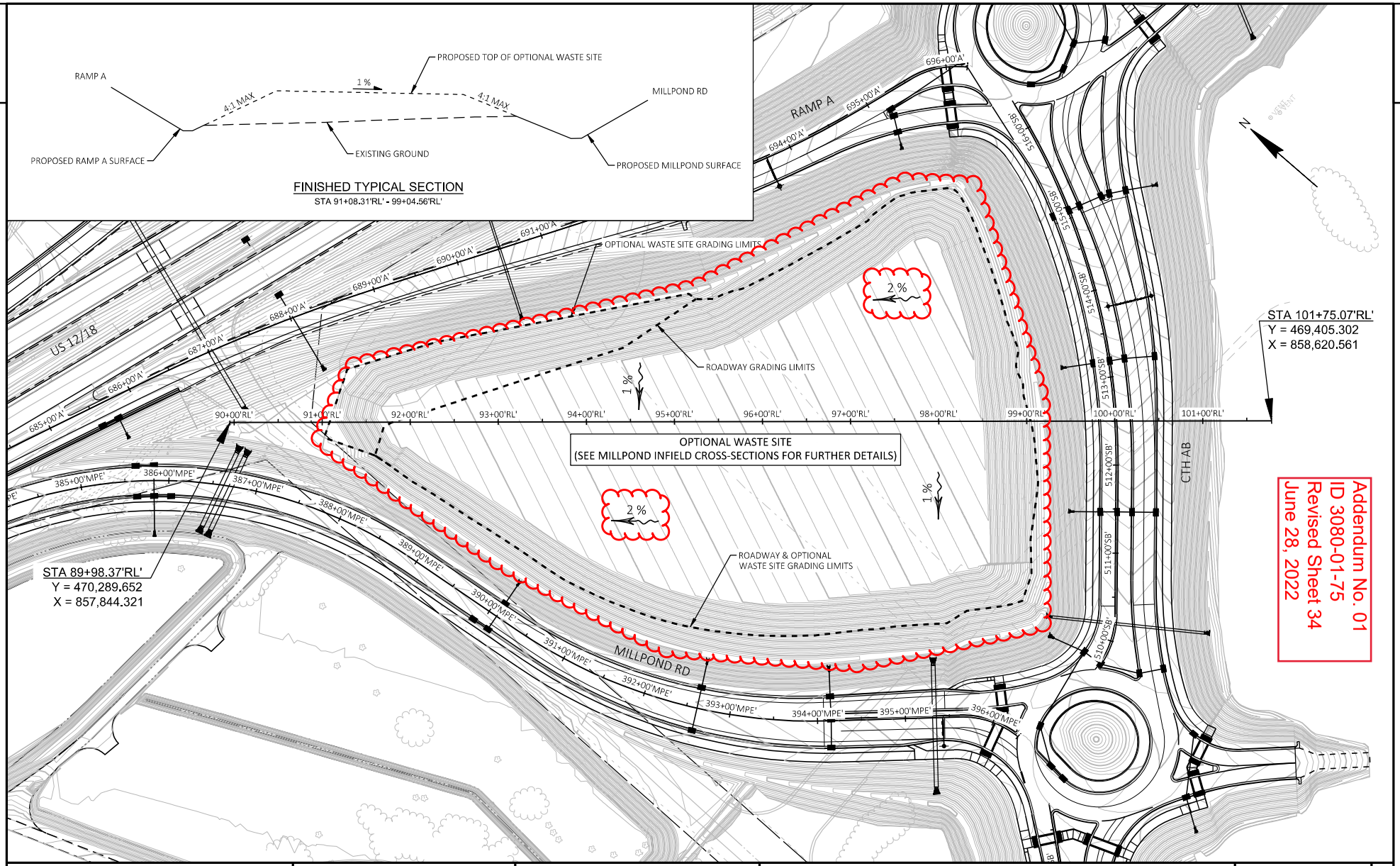
(plus is payment to contractor; minus is credit to the department)

Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

E Payment

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

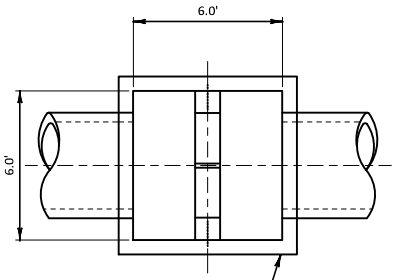
Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.



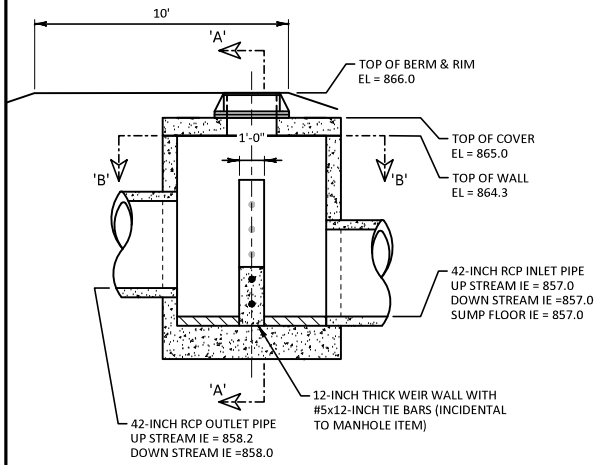
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL - MILLPOND INFIELD - OPTIONAL WASTE SITE	SHEET 34	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - PlanView
PLOT DATE : 6/17/2022 1:36 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

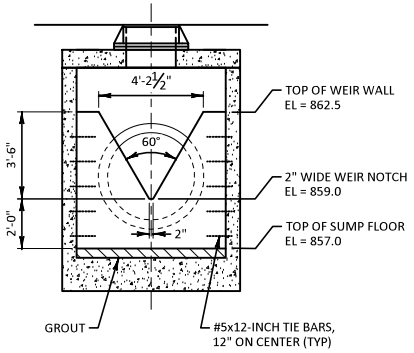
WISDOT/CADDS SHEET 42



SECTION 'B' - 'B'

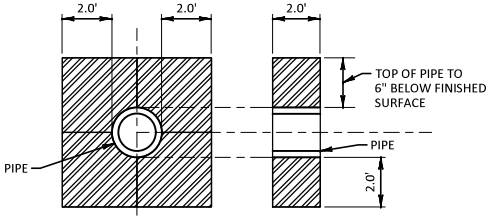


PIPE C/L SECTION

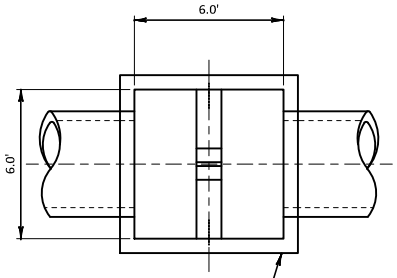


SECTION 'A' - 'A'

CIP OUTLET CONTROL STRUCTURE
POND "A"

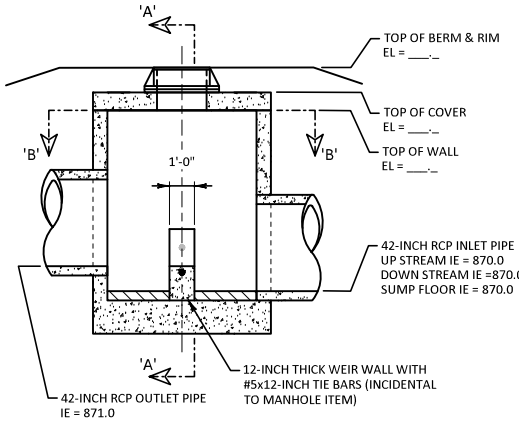


CLAY ANTI-SEEP COLLAR DETAIL

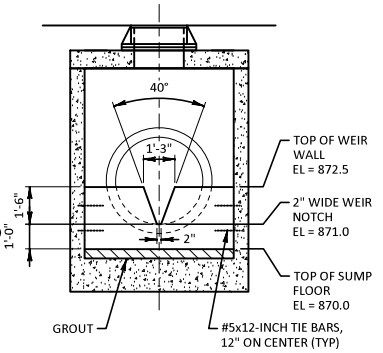


SECTION 'B' - 'B'

Addendum No. 01
ID 3080-01-76
Revised Sheet 42
June 28, 2022



PIPE C/L SECTION

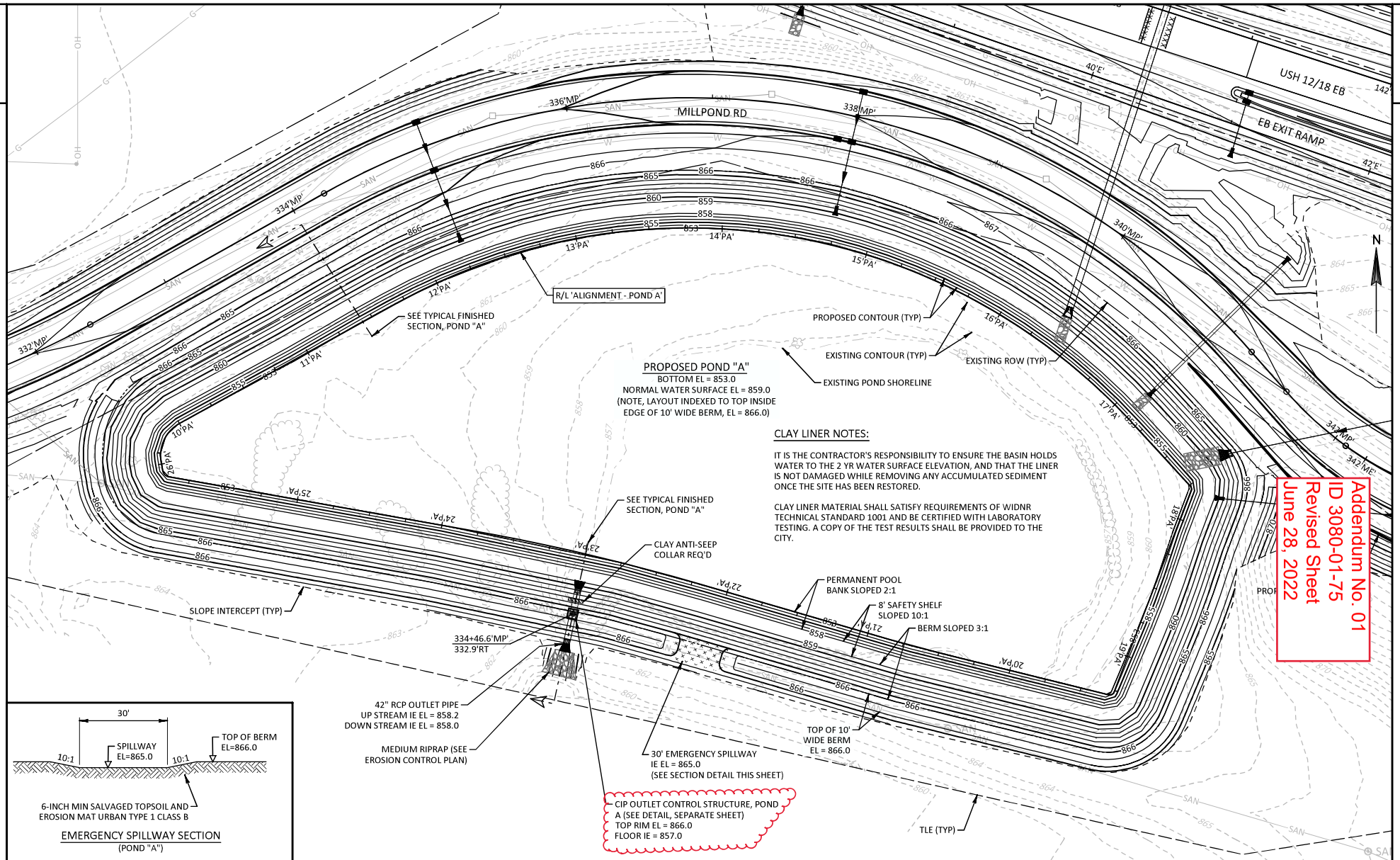


SECTION 'A' - 'A'

CIP OUTLET CONTROL STRUCTURE
POND "B"

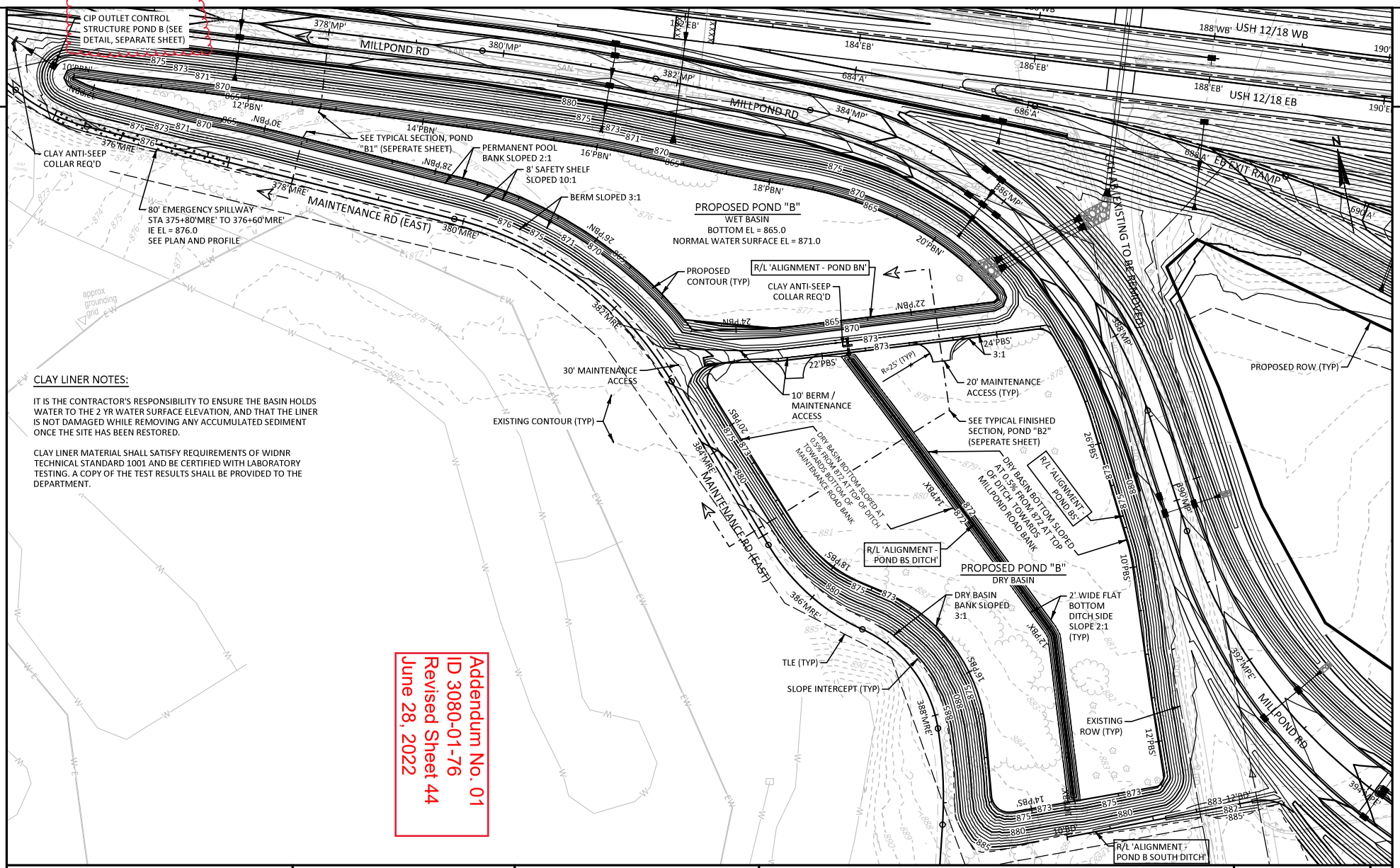
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: OUTLET CONTROL STRUCTURE	SHEET 42	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021600-CM (POND SECTIONS & DETAILS).DWG PLOT DATE : 6/21/2022 12:18 PM PLOT BY : SEH LAYOUT NAME : PD PLOT SCALE : 1.0 IN = #### FT
WISDOT/CADDS SHEET 42



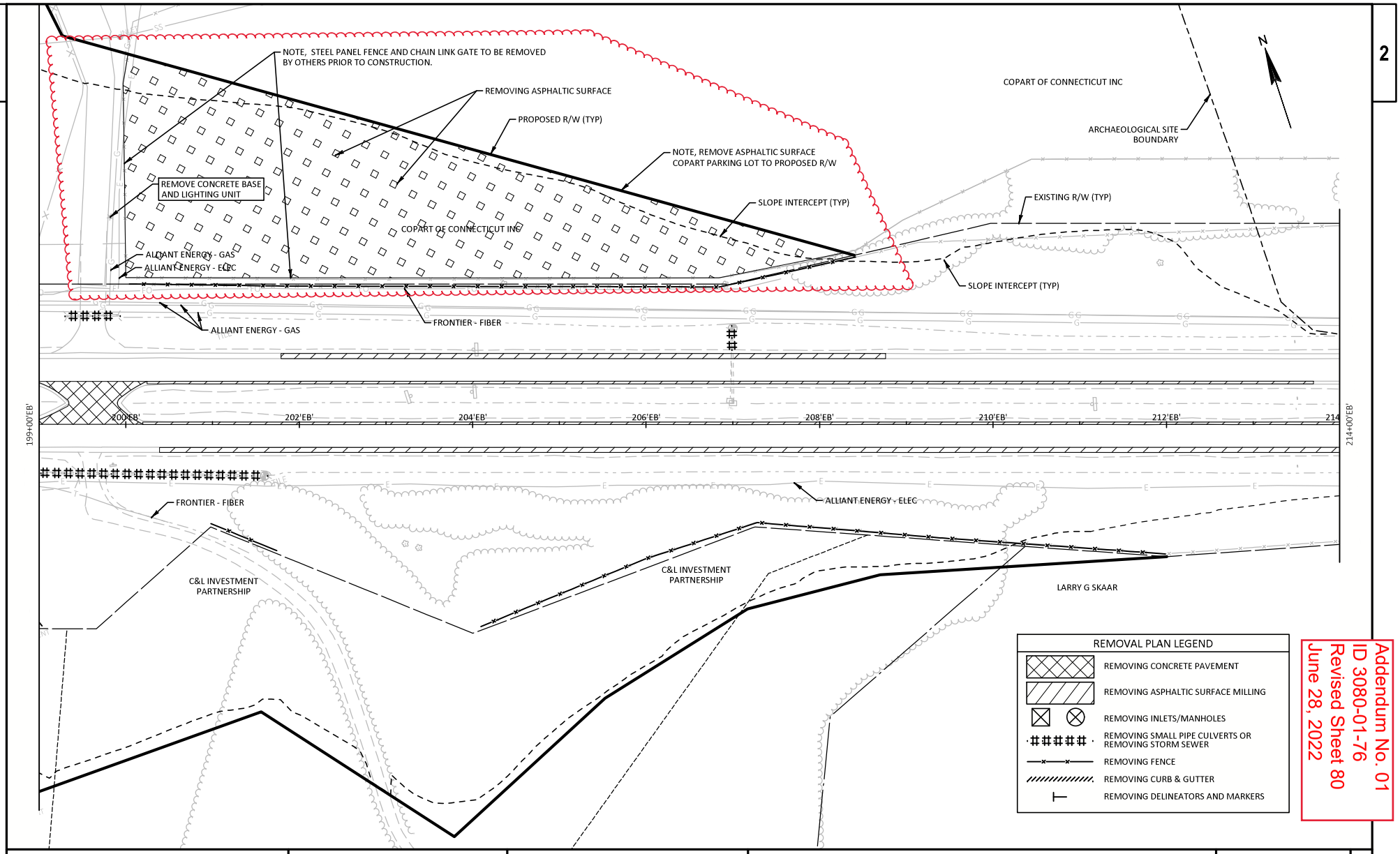
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND "A" GRADING	SHEET 43	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021600-CM (GRD DET - CO POND).DWG PLOT DATE : 6/24/2022 8:08 AM PLOT BY : SEH LAYOUT NAME : 01 PLOT SCALE : 1.0 IN = 60.0 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL: POND "B" GRADING	SHEET 44	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\D21600-CM (GRD DET - CO POND).DWG PLOT DATE : 6/24/2022 8:08 AM PLOT BY : SEH LAYOUT NAME : 02 PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 42



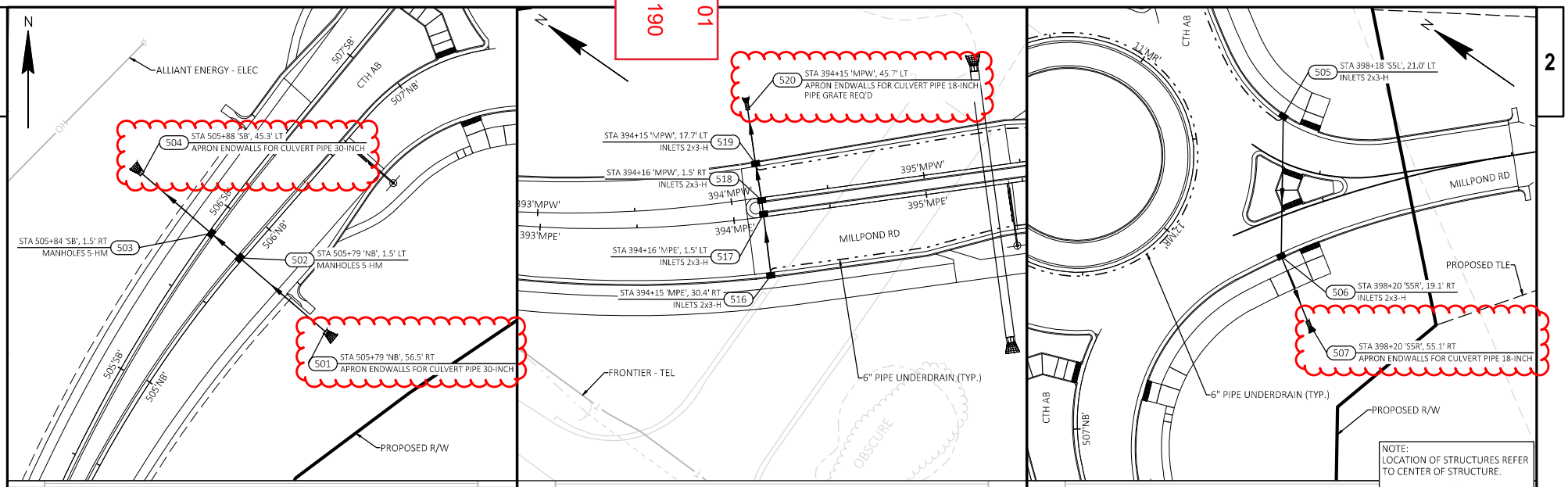
Addendum No. 01
ID 3080-01-76
Revised Sheet 80
June 28, 2022

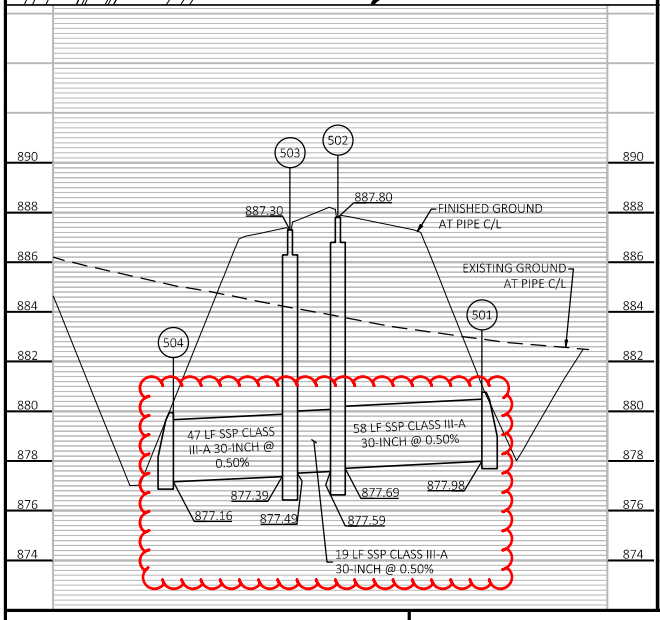
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	REMOVAL PLAN	SHEET 80	E

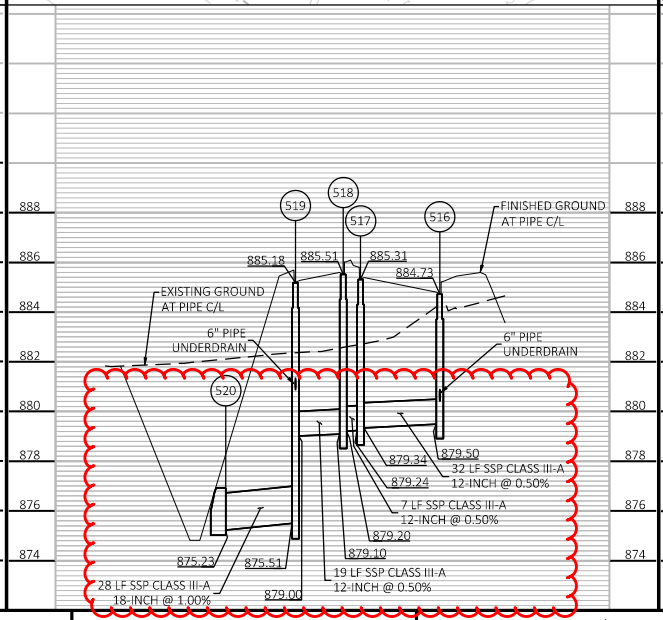
FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021100-RM (REMOVAL PLAN).DWG PLOT DATE : 6/24/2022 9:22 AM PLOT BY : SEH LAYOUT NAME : 07 PLOT SCALE : 1.0 IN = 100.0 FT

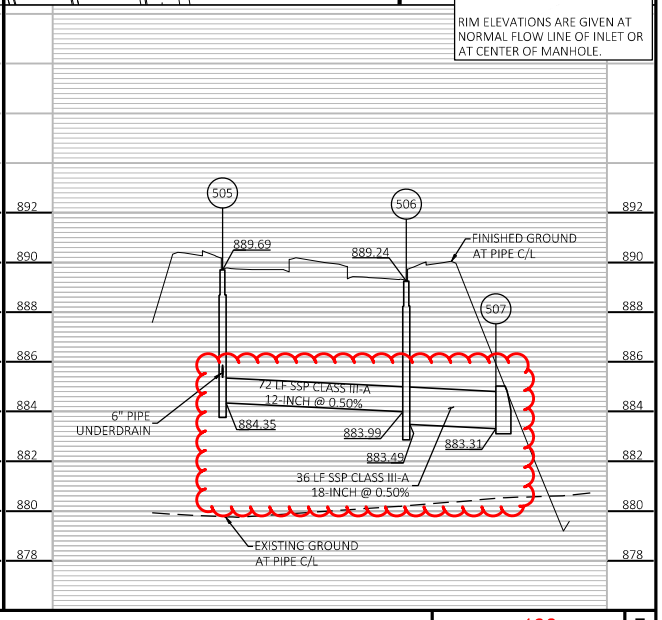
WISDOT/CADDS SHEET 42

Addendum No. 01
ID 3080-01-75
Revised Sheet 190
June 28, 2022





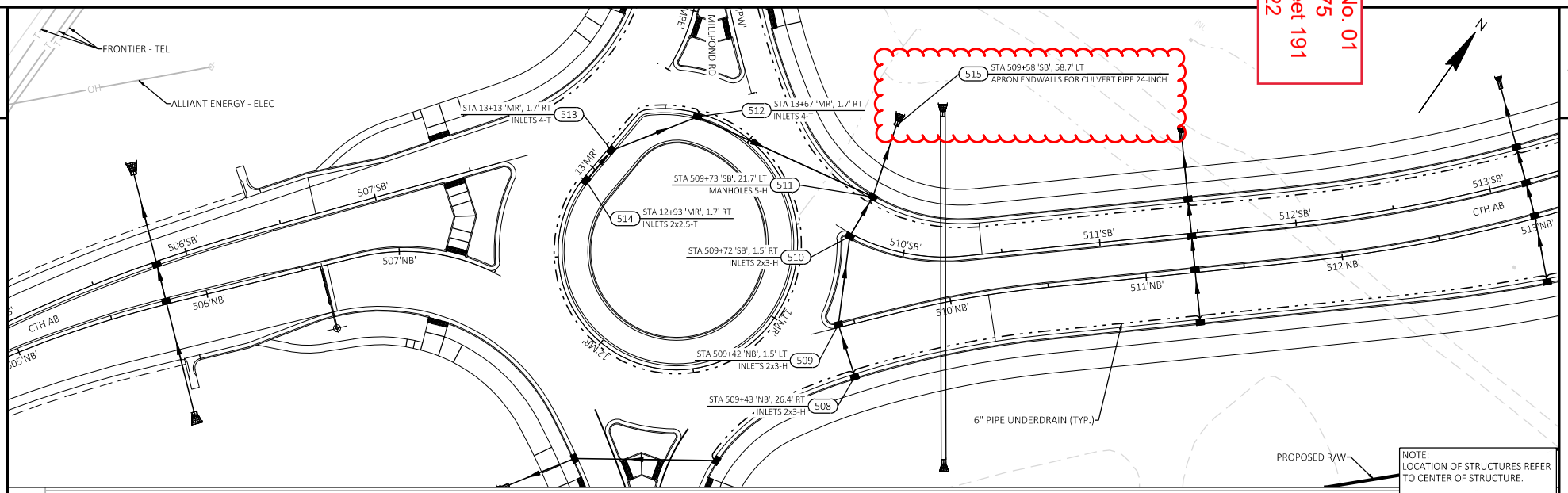




PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB/MILLPOND ROAD	SHEET 190	E

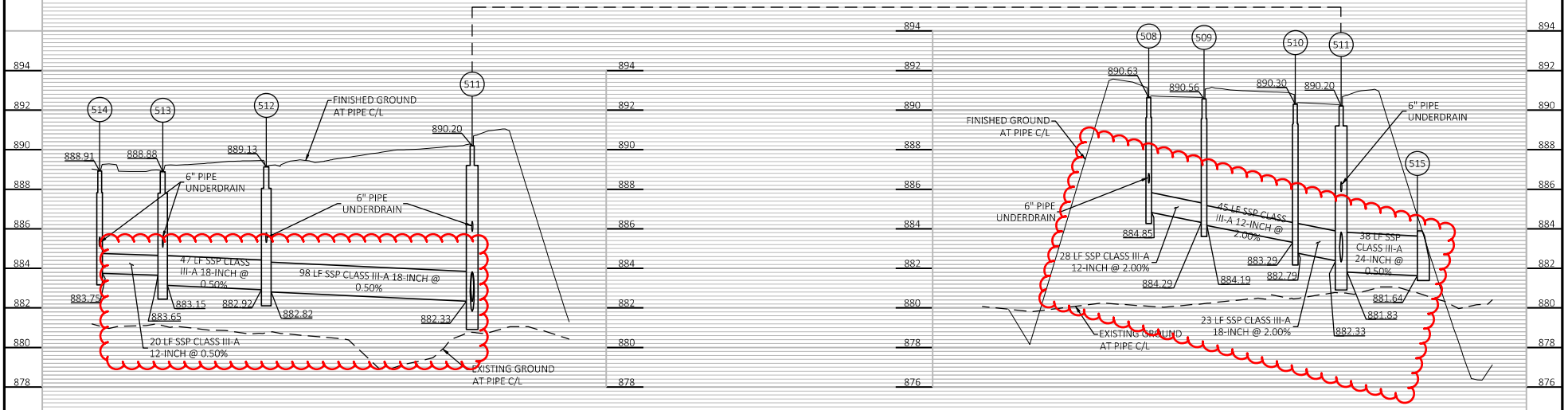
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-1
PLOT DATE : 6/20/2022 3:05 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

Addendum No. 01
ID 3080-01-75
Revised Sheet 191
June 28, 2022



NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

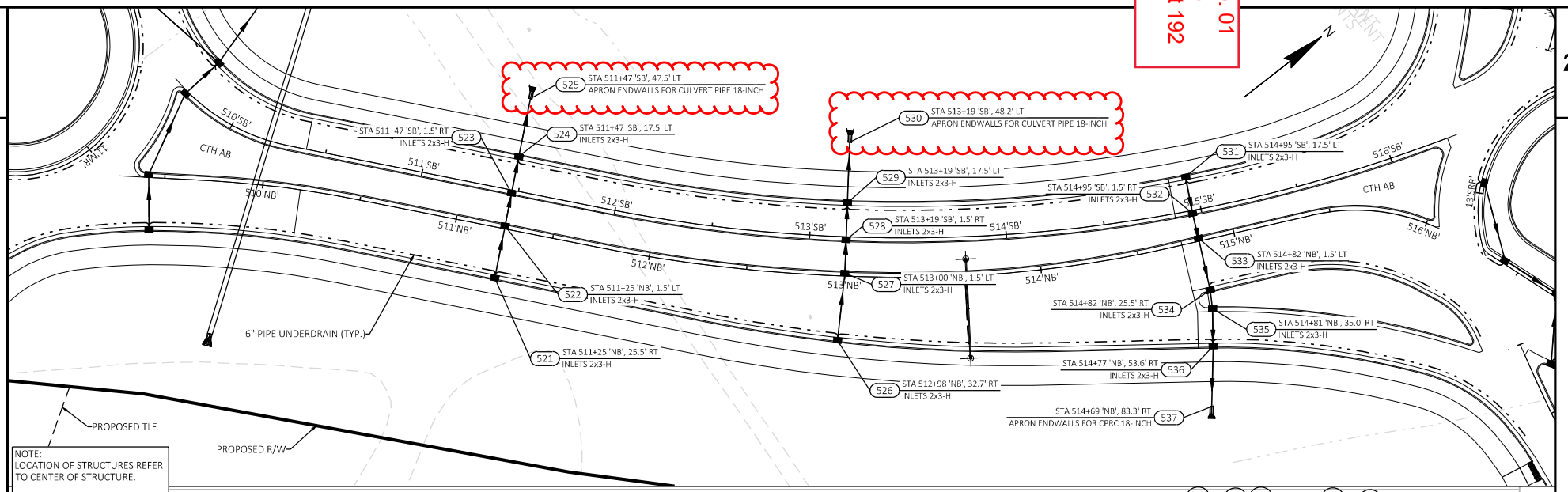
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 191	E

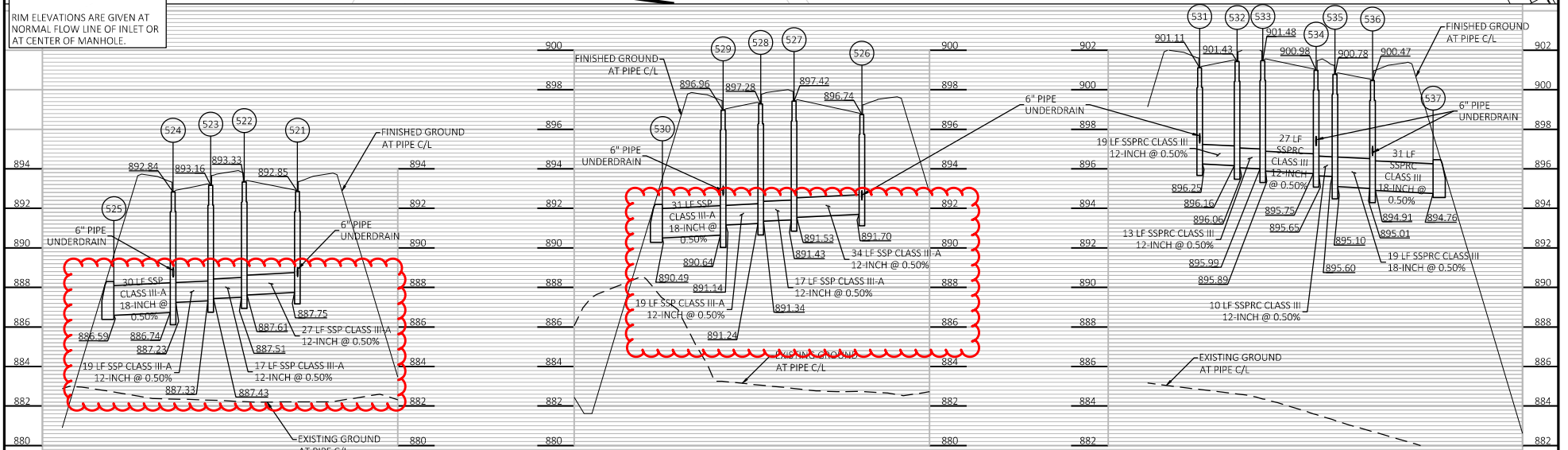
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-2
PLOT DATE : 6/17/2022 4:53 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

Addendum No. 01
ID 3080-01-75
Revised Sheet 192
June 28, 2022



NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

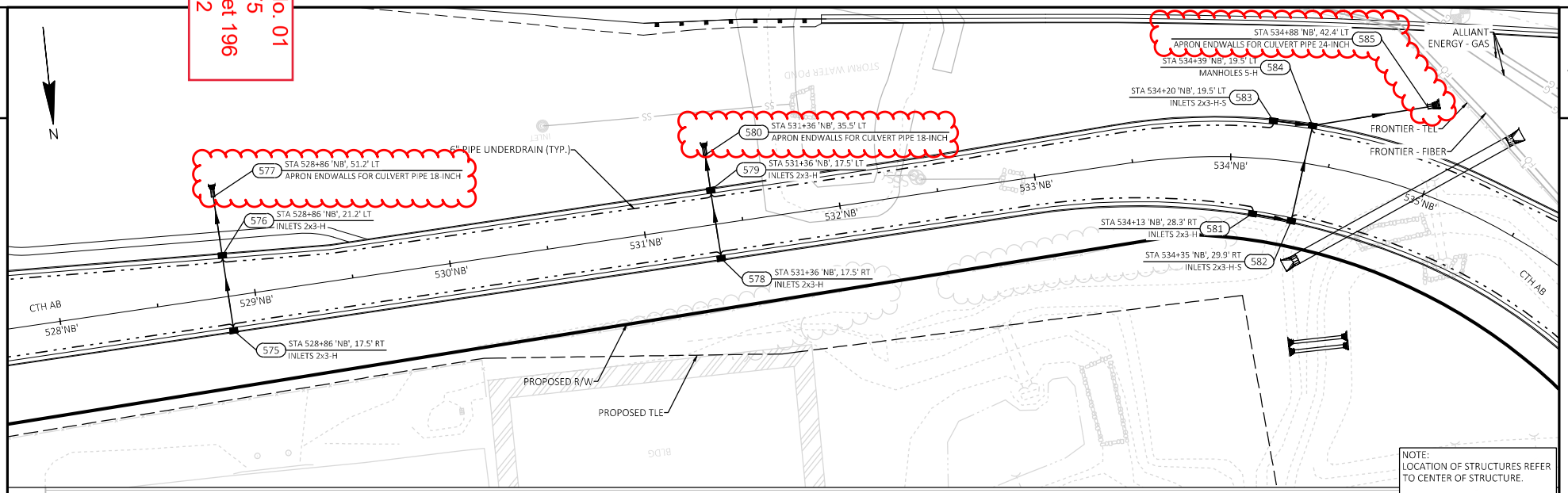
RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 192	E

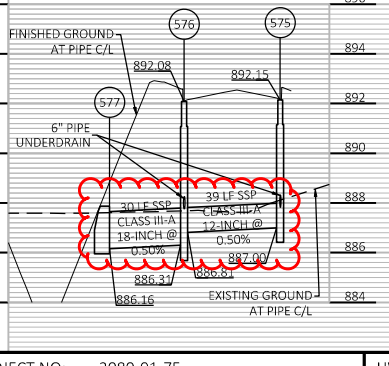
FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-3
PLOT DATE : 6/17/2022 4:54 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

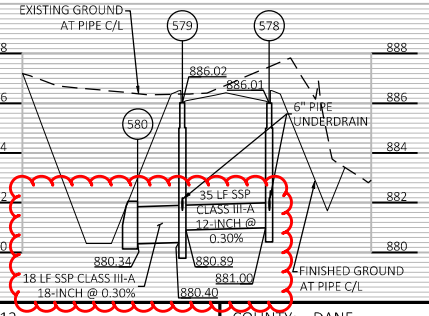
Addendum No. 01
ID 3080-01-75
Revised Sheet 196
June 28, 2022

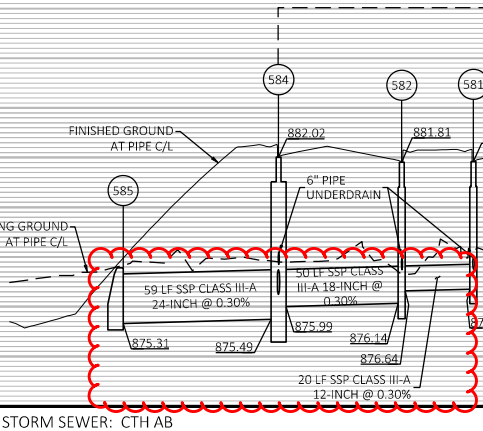


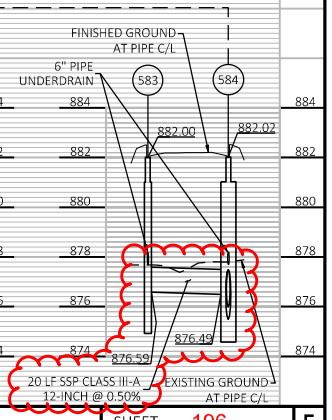
NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.







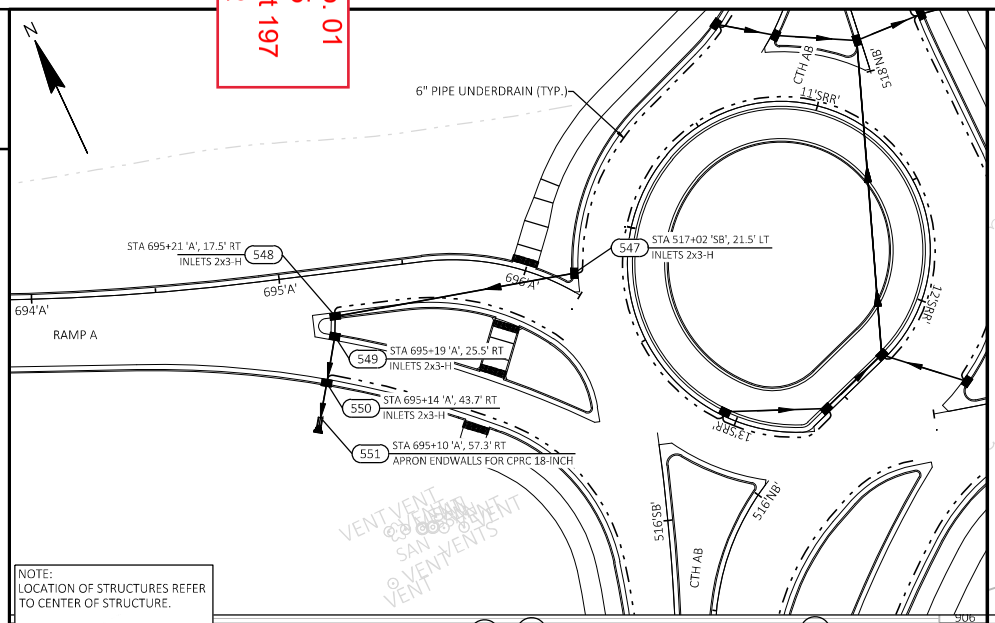


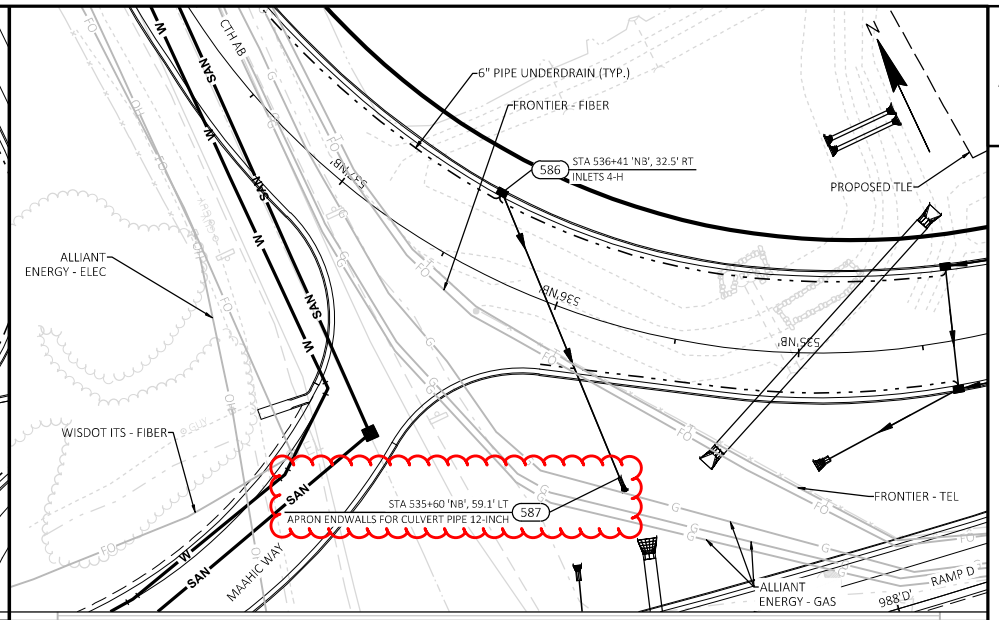
PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 196	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-7
PLOT DATE : 6/17/2022 4:55 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 41

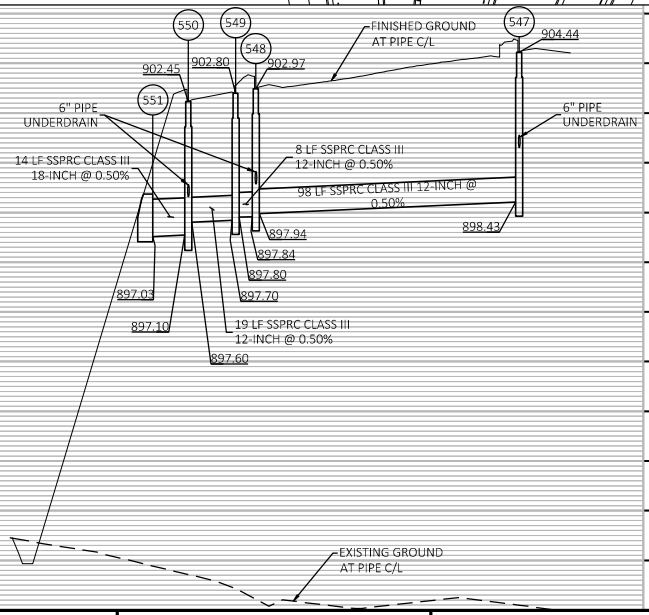
Addendum No. 01
ID 3080-01-75
Revised Sheet 197
June 28, 2022

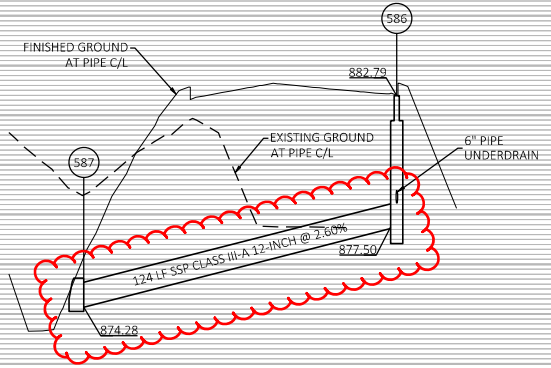




NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE.

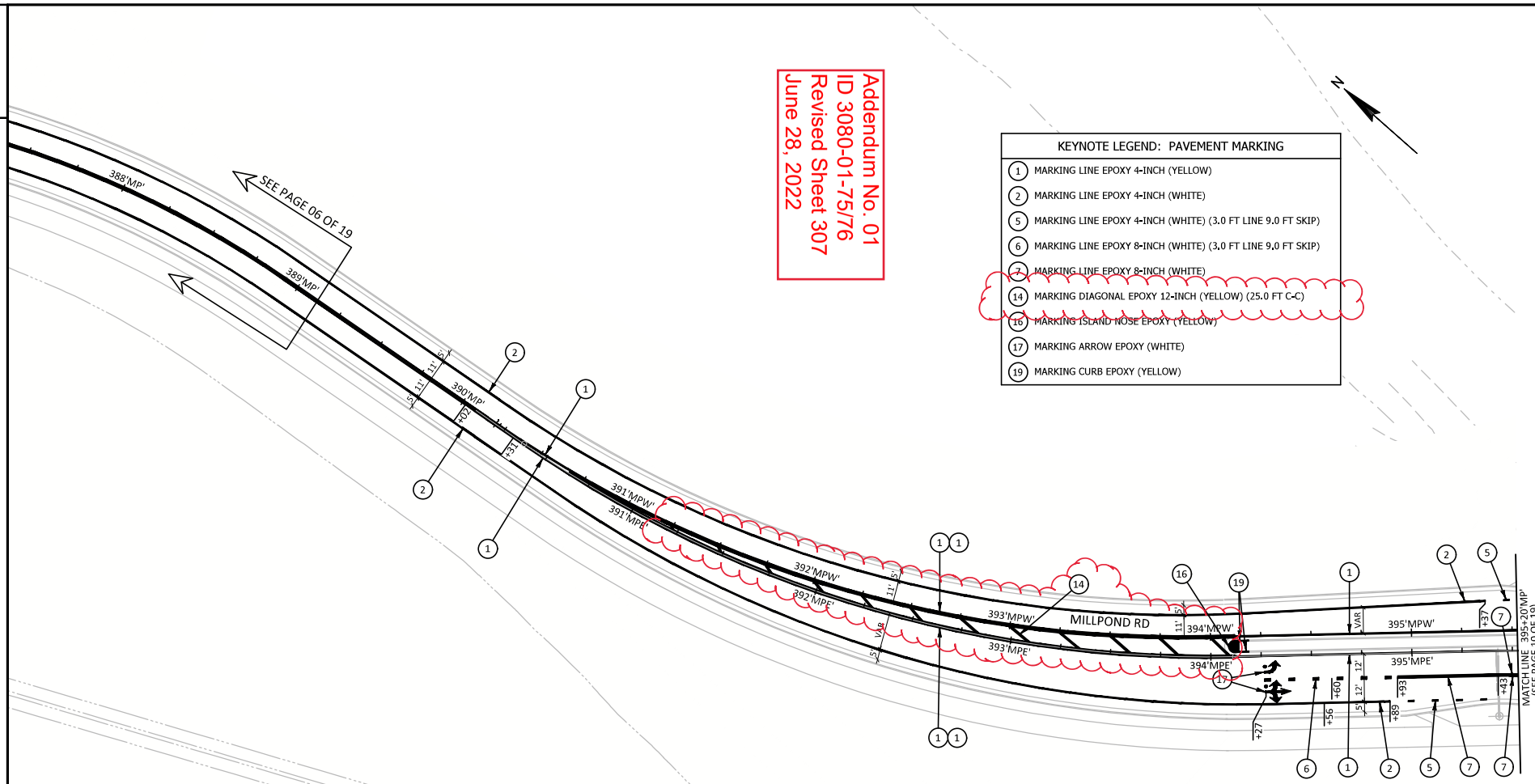




PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	STORM SEWER: CTH AB	SHEET 197	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_022501_SS.DWG
LAYOUT NAME - SS-8
PLOT DATE : 6/17/2022 4:55 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

Addendum No. 01
ID 3080-01-75/76
Revised Sheet 307
June 28, 2022



PROJECT NO: 3080-01-75/76	HWY: USH 12	COUNTY: DANE	PERMAMENT PAVEMENT MARKING	PAGE 13 OF 19	SHEET 307	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024502-PM (PVMT MRK - CTH AB).DWG PLOT DATE : 6/20/2022 8:00 AM PLOT BY : SEH LAYOUT NAME : 13 PLOT SCALE : 1.0 IN = 50.0 FT

WISDOT/CADDS SHEET 42

CULVERT ITEMS

PROJECT NUMBER	CATEGORY	STAGE	*** INLET STATION	*** INLET OFFSET	*** INLET ELEV. (FT)	*** OUTLET STATION	*** OUTLET OFFSET	*** OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS (IN)	LOCATION	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	520.3324 CULVERT PIPE CLASS III-A 24-INCH LF	522.0142 CULVERT PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	522.0524 CULVERT PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	522.2334 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH LF	522.2634 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH EACH	* 633.5200 MARKERS CULVERT END EACH	** JOINT TIES EACH
3080-01-75	0010	2	395+33 'MPE' 88.5' RT	875.41		395+33 'MPE' 49.5' LT	875.90	0.36%		MILLPOND RD	-	-	-	-	138	-	-	2	-	-	2	12
			509+78 'NB' 77.2' RT	878.00		510+12 'NB' 93.0' LT	876.95	0.60%		CTH AB	-	2	-	174	-	-	-	-	-	-	2	12
			520+83 'NB' 115.8' LT	875.61		522+26 'NB' 170.1' RT	874.00	0.48%		CTH AB	-	-	-	-	-	336	2	-	-	-	2	12
			534+42 'NB' 48.4' RT	875.00		535+27 'NB' 41.1' LT	874.50	0.41%		CTH AB	-	-	-	-	-	-	-	-	122	2	2	12
										STAGE 2 SUBTOTALS	0	2	0	174	138	336	2	2	122	2	8	36
3080-01-75	0010	3	502+07 'NB' 44.3' RT	890.30		502+45 'NB' 44.4' RT	888.90	3.85%	0.064	F.E. RT	2	-	36	-	-	-	-	-	-	-	-	-	-
			502+76 'SB' 39.2' LT	891.50		503+20 'SB' 40.4' LT	889.80	3.67%	0.064	P.E. LT	2	-	46	-	-	-	-	-	-	-	-	-	-
										STAGE 3 SUBTOTALS	4	0	82	0	0	0	0	0	0	0	0	0	0
										TOTAL 0010	4	2	82	174	138	336	2	2	122	2	8	36

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS
** NON-BID ITEM: FOR INFORMATION ONLY
*** PIPE INVERT AT END OF PIPE & STATION/OFFSET TO CENTER OF STRUCTURE

COUNTY POND DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM	TO	PIPE THICKNESS	* 521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	530.0118 CULVERT PIPE CORRUGATED POLYETHYLENE 18-INCH LF	SPV.0060.25 SPECIAL (25. DEWATERING FOR COUNTY POND) EACH	SPV.0195.01 SPECIAL (01. 3-INCH CLEAR STONE) TON	REMARKS
3080-01-75	0010	DC1	- DC2	0.064	4	52	1	4.5	TWO PIPES
				TOTAL 0010	4	52	1	4.5	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS

Addendum No. 01
ID 3080-01-75
Revised Sheet 474
June 28, 2022

STORM SEWER PIPES

PROJECT NUMBER	CATEGORY	STAGE	FROM - TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	608.3018 STORM SEWER PIPE CLASS III-A 18-INCH LF	608.3024 STORM SEWER PIPE CLASS III-A 24- INCH LF	608.3030 STORM SEWER PIPE CLASS III-A 30- INCH LF	**JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
3080-01-75	0310	2	501 - 502	-	-	-	-	-	-	58	5	877.58	877.69	0.0050
			502 - 503	-	-	-	-	-	-	19	-	877.59	877.49	0.0050
			503 - 504	-	-	-	-	-	-	47	5	877.39	877.15	0.0050
			505 - 506	-	-	-	72	-	-	-	-	884.35	883.99	0.0050
			506 - 507	-	-	-	-	36	-	-	5	883.49	883.31	0.0050
			508 - 509	-	-	-	28	-	-	-	-	884.85	884.29	0.0200
			509 - 510	-	-	-	45	-	-	-	-	884.19	883.29	0.0200
			510 - 511	-	-	-	-	23	-	-	-	882.79	882.33	0.0200
			514 - 513	-	-	-	20	-	-	-	-	883.75	883.65	0.0050
			513 - 512	-	-	-	-	47	-	-	-	883.15	882.92	0.0050
			512 - 511	-	-	-	-	38	-	-	-	882.82	882.33	0.0050
			511 - 515	-	-	-	-	-	38	-	5	881.83	881.64	0.0050
			516 - 517	-	-	-	32	-	-	-	-	879.50	879.34	0.0050
			517 - 518	-	-	-	7	-	-	-	-	879.24	879.20	0.0050
			518 - 515	-	-	-	19	-	-	-	-	879.10	879.00	0.0050
			519 - 520	-	-	-	-	28	-	-	5	875.51	875.23	0.0100
			521 - 522	-	-	-	27	-	-	-	-	887.75	887.61	0.0050
			522 - 523	-	-	-	17	-	-	-	-	887.51	887.43	0.0050
			523 - 524	-	-	-	19	-	-	-	-	887.33	887.23	0.0050
			524 - 525	-	-	-	-	30	-	-	5	886.74	886.59	0.0050
			526 - 527	-	-	-	34	-	-	-	-	891.70	891.53	0.0050
			527 - 528	-	-	-	17	-	-	-	-	891.43	891.34	0.0050
			528 - 529	-	-	-	19	-	-	-	-	891.24	891.14	0.0050
			529 - 530	-	-	-	-	31	-	-	5	890.64	890.43	0.0050
			531 - 532	29	-	-	-	-	-	-	-	896.25	896.15	0.0050
			532 - 533	13	-	-	-	-	-	-	-	896.06	895.99	0.0050
			533 - 534	27	-	-	-	-	-	-	-	895.89	895.75	0.0050
			534 - 535	10	-	-	-	-	-	-	-	895.65	895.60	0.0050
			535 - 536	-	19	-	-	-	-	-	-	895.10	895.01	0.0050
			536 - 537	-	31	-	-	-	-	-	5	894.91	894.75	0.0050
			538 - 539	41	-	-	-	-	-	-	-	898.50	898.30	0.0050
			539 - 541	31	-	-	-	-	-	-	-	898.20	898.04	0.0050
			540 - 541	36	-	-	-	-	-	-	-	898.22	898.04	0.0050
			541 - 544	-	-	127	-	-	-	-	-	897.04	896.41	0.0050
			542 - 543	25	-	-	-	-	-	-	-	897.79	897.67	0.0050
			543 - 544	33	-	-	-	-	-	-	-	897.57	897.41	0.0050
			544 - 545	-	-	28	-	-	-	-	-	896.31	896.17	0.0050
			545 - 546	-	-	41	-	-	-	-	5	896.07	895.87	0.0050
			547 - 548	98	-	-	-	-	-	-	-	898.43	897.94	0.0050
			548 - 549	8	-	-	-	-	-	-	-	897.84	897.80	0.0050
			549 - 550	29	-	-	-	-	-	-	-	897.70	897.60	0.0050
			550 - 551	-	14	-	-	-	-	-	5	897.10	897.03	0.0050
			552 - 553	28	-	-	-	-	-	-	-	900.40	900.31	0.0050
			553 - 554	34	-	-	-	-	-	-	-	900.21	900.04	0.0050
			554 - 555	41	-	-	-	-	-	-	-	899.94	899.73	0.0050
			555 - 556	-	34	-	-	-	-	-	5	899.24	899.07	0.0050
			PAGE 1/2 - STAGE 2 SUBTOTALS	453	98	196	356	353	38	124	68			

**NON-BID ITEM: FOR INFORMATION ONLY

CONTINUED ON NEXT PAGE

Addendum No. 01
ID 3080-01-75
Revised Sheet 477
June 28, 2022

STORM SEWER PIPES (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	FROM - TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	608.3018 STORM SEWER PIPE CLASS III-A 18-INCH LF	608.3024 STORM SEWER PIPE CLASS III-A 24-INCH LF	608.3030 STORM SEWER PIPE CLASS III-A 30-INCH LF	**JOINT TIES EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
3080-01-75	0010	2	557 - 558	23	-	-	-	-	-	-	-	898.47	898.35	0.0050
			558 - 560	41	-	-	-	-	-	-	-	898.25	898.05	0.0050
			559 - 560	40	-	-	-	-	-	-	-	898.25	898.05	0.0050
			560 - 561	-	-	102	-	-	-	-	-	897.00	896.49	0.0050
			561 - 562	-	-	33	-	-	-	-	-	896.39	896.22	0.0050
			562 - 566	-	-	104	-	-	-	-	-	896.12	895.60	0.0050
			563 - 564	19	-	-	-	-	-	-	-	897.02	896.93	0.0050
			564 - 565	8	-	-	-	-	-	-	-	896.83	896.79	0.0050
			565 - 566	19	-	-	-	-	-	-	-	896.69	896.60	0.0050
			566 - 567	-	-	22	-	-	-	-	5	895.50	895.39	0.0050
			568 - 569	25	-	-	-	-	-	-	-	892.88	892.75	0.0050
			569 - 570	5	-	-	-	-	-	-	-	892.65	892.61	0.0050
			570 - 571	-	57	-	-	-	-	-	-	892.11	891.83	0.0050
			571 - 572	-	6	-	-	-	-	-	-	891.73	891.70	0.0050
			572 - 573	-	20	-	-	-	-	-	-	891.60	891.50	0.0050
			573 - 574	-	29	-	-	-	-	-	5	891.00	890.86	0.0050
			575 - 576	-	-	-	33	-	-	-	-	887.00	886.81	0.0050
			576 - 577	-	-	-	-	30	-	-	5	886.31	886.16	0.0050
			578 - 579	-	-	-	33	-	-	-	-	881.00	880.89	0.0030
			579 - 580	-	-	-	-	18	-	-	5	880.40	880.34	0.0030
			581 - 582	-	-	-	20	-	-	-	-	876.70	876.64	0.0030
			582 - 584	-	-	-	-	50	-	-	-	876.14	875.99	0.0030
			583 - 584	-	-	-	20	-	-	-	-	876.59	876.49	0.0050
			584 - 585	-	-	-	-	-	59	-	5	875.49	875.31	0.0030
		PAGE 2/2 - STAGE 2 SUBTOTALS		182	112	261	114	98	59	0	30			
		STAGE 2 SUBTOTALS		835	210	457	470	381	97	124	96			
3080-01-75	0010	3	586 - 587	-	-	-	124	-	-	-	5	877.50	874.28	0.0260
		STAGE 3 SUBTOTALS		0	0	0	124	0	0	0	5			
		TOTAL 0010		835	210	457	594	381	97	124	102			

**NON-BID ITEM: FOR INFORMATION ONLY

Addendum No. 01
ID 3080-01-75
Revised Sheet 478
June 28, 2022

Addendum No. 01
ID 3080-01-75
Revised Sheet 479
June 28, 2022

STORM SEWER STRUCTURES

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	** STATION	** OFFSET	* 520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	* 520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	* 520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	* 520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH EACH	* 522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0652 INLET COVERS TYPE T EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH	RIM EL	INVERT EL	*** DEPTH FT
3080-01-75	0010	2	501	505+79 'NB'	56.5' RT	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	878.00		
			502	505+79 'NB'	1.5' LT	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	887.80	877.34	9.63
			503	505+84 'SB'	1.5' RT	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	887.30	877.14	9.33
			504	505+88 'SB'	45.3' LT	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	877.13		
			505	398+18 'SSL'	21.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	889.68	884.18	4.68
			506	398+20 'SSR'	19.1' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	889.24	883.28	5.23
			507	398+20 'SSR'	55.1' RT	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	883.28		
			508	509+43 'NB'	26.4' R	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	890.62	884.68	5.22
			509	509+42 'NB'	1.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	890.56	884.03	5.70
			510	509-72 'SB'	1.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	890.30	882.58	6.72
			511	509-73 'SB'	21.7' LT	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	890.20	881.58	7.79
			512	13+67 'MR'	1.7' RT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	889.13	882.61	5.52
			513	13+13 'MR'	1.7' RT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	888.88	882.94	4.94
			514	12+33 'MR'	1.7' RT	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	888.91	883.58	4.16
			515	509-58 'SB'	58.7' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		881.51	
			516	394+15 'YPE'	30.4' R	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	884.73	879.26	4.70
			517	394+15 'YPE'	1.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	885.31	879.07	5.41
			518	394+15 'MPW'	1.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	885.51	878.93	5.73
			519	394+15 'MPW'	17.7' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	885.18	879.51	4.84
			520	394+15 'MPW'	45.7' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		879.23	
			521	511+25 'NB'	25.5' R	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	893.85	887.58	4.44
			522	511+25 'NB'	1.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	893.33	887.34	5.16
			523	511-47 'SB'	1.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	893.16	887.16	5.17
			524	511-47 'SB'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	893.84	886.53	5.48
			525	511-47 'SB'	47.5' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		886.56	
			526	512+98 'NB'	32.7' R	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	896.74	891.53	4.38
			527	513+00 'NB'	1.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	897.42	891.26	5.33
			528	513-19 'SB'	1.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	897.28	891.07	5.38
			529	513-19 'SB'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	896.96	890.44	5.69
			530	513-19 'SB'	48.2' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		890.46	
			531	514-95 'SB'	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	901.11	896.08	4.20
			532	514-95 'SB'	1.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	901.43	895.85	4.71
			533	514+82 'NB'	1.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	901.48	895.72	4.93
			534	514+82 'NB'	25.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	900.98	895.48	4.67
			535	51+25 S3R'	1.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	900.78	894.89	5.06
			536	51+25 S3R'	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	900.47	894.70	4.94
			537	51+23 S3R'	48.1' RT	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1		894.73	
			538	13+06 SRR'	1.7' RT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	903.56	898.33	4.23
			539	12+59 SRR'	1.7' RT	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	903.25	898.03	4.22
			540	516+87 'NB'	31.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	903.55	898.05	4.67
				PAGE 1/3 - STAGE 2 SUBTOTALS		0	4	1	2	1	0	25	2	3	5	3	4	25	1	8			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS
** STATION & OFFSET ARE TO CENTER OF STRUCTURE
*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

CONTINUED ON NEXT PAGE

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NUMBER	CATEGORY	STAGE	STRUCTURE	** STATION	** OFFSET	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	* 520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	* 520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0552 INLET COVERS TYPE T EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH	RIM EL	INVERT EL	*** DEPTH FT
3080-01-75	0010	2	576	528+86 NB	21.2' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	892.08	886.10	5.15
			577	528+86 NB	51.2' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		886.13	
			578	531+36 NB	17.5' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	886.01	880.83	4.35
			579	531+36 NB	17.5' LT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	886.02	880.19	5.00
			580	531+36 NB	35.5' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1		880.31	
			581	534+13 NB	28.3' RT	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	881.83	876.53	4.47
			582	534+35 NB	29.9' RT	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	881.81	875.93	5.05
			583	534+20 NB	19.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	882.00	875.34	5.83
			584	534+39 NB	19.5' LT	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	882.02	875.24	5.61
			585	534+88 NB	42.4' LT	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1		875.28	
			PAGE 3/3 - STAGE 2 SUBTOTALS			0	2	1	0	0	0	5	0	2	0	1	0	6	0	3			
			STAGE 2 SUBTOTALS			0	6	2	2	3	3	56	2	2	9	7	9	53	1	16			
3080-01-75	0010	3	586	536+41 NB	32.5' RT	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	882.79	877.33	4.63
			587	535+60 NB	59.1' LT	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1		874.16	
			STAGE 3 SUBTOTALS			1	0	0	0	0	0	1	0	0	0	0	1	0	0	1			
			TOTAL 0010			1	6	2	2	3	3	57	2	2	9	7	10	53	1	17			

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-75 PLANS
** STATION & OFFSET ARE TO CENTER OF STRUCTURE
*** DEPTH = RIM ELEV - TOP OF STR ELEV - COVER HT - 6 INCH ADJ RING HT

Addendum No. 01
ID 3080-01-75
Revised Sheet 481
June 28, 2022

REMOVING FENCE

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0170 REMOVING FENCE LF	REMARKS
3080-01-76	0010	1	146+30'WB	-	162+65'WB'	LT	1643	WOVEN WIRE
			151+49'EB'	-	160+24'EB'	LT	-	WOVEN WIRE
			186+15'WB	-	197+58'WB'	LT	1148	WOVEN WIRE
			188+32'EB'	-	199+03'EB'	RT	1151	WOVEN WIRE
			200+96'EB'	-	201+74'EB'	RT	82	WOVEN WIRE
			200+00'WB	-	208+40'WB'	LT	842	WOVEN WIRE
			204+10'EB'	-	212+03'EB'	RT	813	WOVEN WIRE
			528+36'LL'			RT	85	STEEL POST & PANEL
			532+66'LL'	-	535+27'LL'	LT/RT	377	WOVEN WIRE
					STAGE 1 SUBTOTALS		6,141	
3080-01-76	0010	2	163+16'WB	-	166+27'WB'	LT	308	
			163+56'WB	-	177+97'WB'	LT	1,445	
					STAGE 2 SUBTOTALS		1,753	
3080-01-76	0010	3	119+62'EB'	-	127+32'EB'	RT	765	
	0010		132+24'EB'	-	135+50'EB'	RT	374	
					STAGE 3 SUBTOTALS		1,139	
3080-01-76	0010	4A	135+50'EB'	-	144+32'EB'	RT	832	
					STAGE 4A SUBTOTALS		832	
					TOTAL 0010		9,865	
3080-01-76	0020	1	146+00'EB'	-	186+93'EB'	RT	4,110	WOVEN WIRE
					STAGE 1 SUBTOTALS		4,110	
					TOTAL 0020		4,110	
					PROJECT 3080 01 76 TOTAL		13975	

REMOVING EXISTING BUSINESS SIGNS

PROJECT NUMBER	CATEGORY	STATION	MESSAGE	OFFSET	204.9060.S.02 REMOVING (ITEM DESCRIPTION) (02. EXISTING BUSINESS SIGN) EACH	REMARKS
3080-01-76	0020	345+41'MP'	YHGC	RT	1	CITY TO SALVAGE SIGN COMPONENTS
		348+87'MP'	YHGC	RT	1	
				TOTAL 0020	2	

Addendum No. 01
ID 3080-01-76
Revised Sheet 493
June 28, 2022

REMOVING CONCRETE ITEMS

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	REMARKS
3080-01-76	0010	1	98+25'XMP	-	99+70'XMP'	MILLPOND RD	-	530	102	INTERSECTION
			10+50'XAB'		10+02'XAB'	CTH AB, RT	-	150	-	
						STAGE 1 SUBTOTALS	0	680	102	
3080-01-76	0010	2	142+19'WB	-	145+28'WB'	LT	-	534	-	
			198+82'EB'	-	200+20'EB'	LT	471	-	-	
						STAGE 2 SUBTOTALS	471	534	0	
3080-01-76	0010	3	179+61'EB'	-	188+63'EB'	RT	2,795	-	-	
			184+50'WB	-	193+43'WB'	LT	2,899	-	-	
			186+85'FR'	-	187+15'FR'	LT	165	-	-	
			10+02'XAB'	-	10+50'XAB'	CTH AB, RT	-	130	-	
						STAGE 3 SUBTOTALS	5,859	130	0	
3080 01 76	0010	4A	122+46'EB'		124+86'EB'	RT	160			
						STAGE 4A SUBTOTALS	160	0	0	
3080-01-76	0010	4B	130+07'WB	-	151+77'WB'	RT	3,024	-	-	
			139+93'FR'	-	146+13'FR'	LT	842	-	-	
			143+72'WB	-	150+62'WB'	RT	1,295	-	-	
			159+80'EB'	-	164+05'EB'	LT	780	-	-	
			161+48'WB	-	164+60'WB'	LT	830	-	-	
			178+68'EB'		191+59'EB'	LT	2,348			
			181+87'WB	-	194+37'WB'	RT	2,236	-	-	
						STAGE 4B SUBTOTALS	11,355	0	0	
						TOTAL 0010	17,845	1,344	102	
3080-01-76	0020	1	323+95'MP'	-	324+32'MP'	RT	-	37	11	CURB RAMP
			323+96'MP'	-	324+31'MP'	LT	-	41	24	CURB RAMP
			326+14'MP'	-	327+15'MP'	RT	-	101	-	
						STAGE 1 SUBTOTALS	0	179	35	
3080-01-76	0020	2	348+72'MP'	-	348+96'MP'	RT	-	23	-	
						STAGE 2 SUBTOTALS	0	23	0	
3080-01-76	0020	4A	344+93'MP'	-	345+20'MP'	LT/RT	-	90	-	
						STAGE 4A SUBTOTALS	0	90	0	
						TOTAL 0020	0	292	35	
						PROJECT 3080 01 76 TOTAL	17845	1636	137	

Addendum No. 01
ID 3080-01-76
Revised Sheet 509
June 28, 2022

3

3

CULVERT ITEMS

PROJECT NUMBER	CATEGORY	***INLET STATION	***INLET OFFSET	***INLET ELEV. (FT)	***OUTLET STATION	***OUTLET OFFSET	***OUTLET ELEV. (FT)	SLOPE (%)	PIPE THICKNESS	LOCATION	* 520.8000 CONCRETE COLLARS FOR PIPE EACH	520.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH EACH	521.1618 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 10 TO 1 EACH	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF	522.0115 CULVERT PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF
3080-01-76	0010	140+38'EB	98.0' LT	860.79	140+39'EB	212.0' RT	859.89	0.29%		USH 12 / MILLPOND RD	-	-	-	-	-	-	-
		187+00'EB	163.1' LT	872.70	187+00'EB	136.6' RT	871.50	0.40%		USH 12 / MILLPOND RD	-	-	-	-	-	-	-
		213+72'EB	25.7' LT	864.96	214+27'EB	26.7' LT	864.60	0.64%		USH 12 MEDIAN			2				
		440+35'LD	27.2' LT	861.54	440+35'LD	34.7' RT	860.74	1.13%		MAAHIC WAY	-	-	-	-	-	70	-
		446+00'LD	17.8' LT	866.20	446+00'LD	18.3' RT	866.02	0.50%		MAAHIC WAY	-	-	-	-	-	-	-
		455+35'LD	21.0' LT	865.62	455+35'LD	21.0' RT	865.46	0.39%		MAAHIC WAY	-	-	-	-	-	-	-
		455+34'LD	144.0' LT	866.12	455+34'LD	137.0' LT	866.00	1.69%		LANDFILL DR	1						
		457+65'LD	23.0' LT	865.63	457+65'LD	23.0' RT	865.46	0.37%		MAAHIC WAY	-	-	-	-	-	-	-
		530+00 'LL'	24.0' LT	889.63	530+00 'LL'	26.0' RT	889.27	0.71%	0.064	LUDS LN		2		50			
		534+50 'LL'	29.2' RT	887.84	534+86 'LL'	25.9' RT	887.68	0.39%	0.064	DRIVEWAY, RT	-	2	-	42	-	-	-
		690+50 'A'	47.8' LT	878.35	690+50 'A'	78.1' RT	874.50	3.06%		RAMP 'A'	-	-	-	-	-	126	-
		698+52 'B'	90.6' RT	879.00	699+19 'B'	74.8' LT	878.00	0.56%		RAMP 'B'	-	-	-	-	-	-	-
		706+07 'B'	26.1' LT	873.75	706+45 'B'	46.4' RT	872.00	2.13%		RAMP 'B'	-	-	-	-	-	82	-
		805+00 'C'	37.7' RT	873.30	805+00 'C'	54.3' LT	873.30	0.43%		RAMP 'C'	-	-	-	-	-	92	-
										TOTAL 0010	1	4	2	92	0	370	0
3080-01-76	0020	330+49'MP	31.6' LT	856.68	330+37'MP	49.5' RT	855.81	1.06%		MILLPOND RD	-	-	-	-	-	-	82
		329+44'MP	45.5' RT	861.80	329+57'MP	47.7' RT	861.00	5.51%		DRIVEWAY, RT							
		330+85'MP	61.2' RT	859.50	330+57'MP	60.4' RT	858.00	4.65%		DRIVEWAY, RT	-	-	-	-	-	-	-
		340+90'MP	56.4' LT	860.19	340+90'MP	65.7' RT	858.90	1.06%		MILLPOND RD							
		356+33'MP	106.6' RT	862.32	356+34'MP	123.7' RT	861.56	4.36%		YHGC MAINT RD	-	-	-	-	18	-	-
		386+71'MP	38.7' LT	871.30	386+43'MP	49.1' RT	871.00	0.33%		MILLPOND RD	-	-	-	-	-	-	-
		386+81'MP	35.8' LT	871.30	386+54'MP	52.4' RT	871.00	0.33%		MILLPOND RD	-	-	-	-	-	-	-
										TOTAL 0020	0	0	0	0	18	0	82
										PROJECT 3080-01-76 TOTAL	1	4	2	92	18	370	82

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS
** NON-BID ITEM: FOR INFORMATION ONLY
*** PIPE INVERT AT END OF PIPE & STATION/

CONTINUED ON NEXT PAGE

POND A DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	SPV.0060.67 SPECIAL (10. CIP OUTLET CONTROL STRUCTURE POND A) EACH	SPV.0060.21 SPECIAL (21. DEWATERING FOR POND A) LS
3080-01-76	0010	A1	-	A2	POND A	1	18	1	-
		A2	-	A3	POND A	1	15	-	-
					POND A	-	-	-	1
					TOTAL 0010	2	33	1	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

POND CLAY LINER

PROJECT NUMBER	CATEGORY	STAGE	LOCATION	640.1303.S POND LINER CLAY CY
3080-01-76	0010	2B	POND C	1,650
		2B	POND D	1,180
			TOTAL 0010	2,830

POND B DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.0112 CULVERT PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	* 522.1042 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH	* 608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	SPV.0060.68 SPECIAL (11. CIP OUTLET CONTROL STRUCTURE POND B) EACH	SPV.0060.22 SPECIAL (22. DEWATERING FOR POND B) LS
3080-01-76	0010	B1	-	B2	POND B	6	2	-	-	-	-
	0010	B3	-	B4	POND B	-	-	1	25	1	1
					TOTAL 0010	6	2	1	25	1	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

CLAY ANTI-SEEP COLLAR

PROJECT NUMBER	CATEGORY	LOCATION	SPV.0060.65 SPECIAL (65. CLAY ANTI-SEEP COLLAR) EACH
3080-01-76	0010	POND A	1
		POND B	2
		POND C	1
		POND D	2
		TOTAL 0010	6

Addendum No. 01
ID 3080-01-76
Revised Sheet 515
June 28, 2022

POND C DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	SPV.0060.14 SPECIAL (14. OUTLET CONTROL STRUCTURE POND C) EACH
3080-01-76	0010	C1	-	C2	POND C	1	44	1
					TOTAL 0010	1	44	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

POND D DRAINAGE ITEMS

PROJECT NUMBER	CATEGORY	FROM		TO	LOCATION	* 522.0112 CULVERT PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	* 522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	* 608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	SPV.0060.12 SPECIAL (12. OUTLET CONTROL STRUCTURE POND D) EACH	SPV.0060.13 SPECIAL (13. ORIFICE PLATE RESTRICTOR 6-INCH) EACH
3080-01-76	0010	D1	-	D2	POND D	18	1	-	-	1
		D3	-	D4	POND D	-	1	26	1	-
					TOTAL 0010	18	2	26	1	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN 3080-01-76 PLANS

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	MISCELLANEOUS QUANTITIES	SHEET 515	E

PAVEMENT MARKING ITEMS

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (SOLID WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (SOLID YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (SKIP WHITE) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (SOLID WHITE) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (SOLID YELLOW) LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (SOLID WHITE) LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (SKIP WHITE)	646.3020 MARKING LINE EPOXY 8-INCH (SOLID WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (SKIP WHITE) LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (SOLID WHITE) LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (SKIP WHITE) LF	646.5020 MARKING ARROW EPOXY (TYPE 2, WHITE) LF	646.5020 MARKING ARROW EPOXY (3R, WHITE) EACH
3080-01-76	0010	122+47'EB'	-	131+91'EB'	USH 12/18 EB AUX RAMP				939							294		
		122+47'EB'	-	224+00'EB'	USH 12/18 EB MAINLINE	-	-	-	6440	10,153	2,538	48	-	-	1582	51	-	-
		129+94'WB'	-	220+20'WB'	USH 12/18 WB MAINLINE	-	-	-	7202	9,025	2,256	48	-	-	876	51	-	-
		680+77'A'	-	695+12'A'	RAMP A	-	-	-	1465	933	-	-	251	27	338	-	1	1
		698+26'B'	-	724+67'B'	RAMP B	-	-	-	2338	1,059	-	-	-	-	472	-	-	-
		799+21'C'	-	813+70'C'	RAMP C	-	-	-	1476	943	-	-	248	27	338	-	1	1
		959+66'D'	-	996+03'D'	RAMP D	-	-	103	2342	1,050	-	-	-	-	488	-	-	-
		31+91'E'	-	44+33'E'	RAMP E	-	-	-	1242	291	-	-	-	-	722	-	-	-
		463+00'LD'	-	486+21'LD'	MAAHIC WAY	72	444	-	-	-	-	-	-	-	-	-	-	-
					SUBTOTALS	72	444	103	23444	23454	4794	96	499	54	4816	396	2	2
					TOTAL 0010		619			46,898		4,890		553		5,212		4
3080-01-76	0020	324+25'MP'	-	340+00'MP'	MILLPOND RD	2925	2,178	14	-	-	-	-	-	-	-	-	-	-
		340+00'MP'	-	348+74'MP'	MILLPOND RD	994	1,668	52	-	-	-	-	143	-	-	-	-	-
		348+74'MP'	-	394+07'MPE'	MILLPOND RD	9046	10,353						100				2	
		44+33'E'	-	45+17'E'	RAMP 'E'				131	103								
					GOLF COURSE ACCESS	-	-	-	-	-	-	-	-	-	-	-	-	-
					SUBTOTALS	12965	14,399	66	131	103	0	0	243	0	0	0	2	0
					TOTAL 0020		27,430			234		0		243		0		2
					PROJECT 3080-01-76 TOTAL		28019			47132		4890		796		5212		6

PAVEMENT MARKING ITEMS (CONTINUED)

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH (SKIP WHITE) LF	646.6464 COLD WEATHER MARKING EPOXY 4-INCH (SOLID YELLOW) LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH (SOLID YELLOW) LF	646.7220 MARKING CHEVRON EPOXY 24-INCH (WHITE) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY (YELLOW) LF	646.8220 MARKING ISLAND NOSE EPOXY (YELLOW) EACH	REMARKS
3080-01-76	0010	122+47'EB'	-	131+91'EB'	USH 12/18 EB AUX RAMP	-	-	-	-	-	-	-	
		122+47'EB'	-	224+00'EB'	USH 12/18 EB MAINLINE	-	-	-	-	-	-	-	
		129+94'WB'	-	220+20'WB'	USH 12/18 WB MAINLINE	-	-	-	-	-	-	-	
		680+77'A'	-	695+12'A'	RAMP A	-	-	-	156	-	-	-	
		698+26'B'	-	724+67'B'	RAMP B	-	-	-	-	-	-	-	
		799+21'C'	-	813+70'C'	RAMP C	-	-	-	156	-	-	-	
		959+66'D'	-	996+03'D'	RAMP D	-	-	-	-	-	-	-	
		31+91'E'	-	44+33'E'	RAMP E	-	-	-	399	-	10	1	
		463+00'LD'	-	486+21'LD'	MAAHIC WAY	-	-	-	-	-	-	-	
					SUBTOTALS	0	0	0	711	0	10	1	
					TOTAL 0010	0	0	0	711	0	10	1	
3080-01-76	0020	324+25'MP'	-	340+00'MP'	MILLPOND RD	-	5,317	-	-	135	-	-	
		340+00'MP'	-	348+74'MP'	MILLPOND RD	64	-	89	-	-	20	2	
		348+74'MP'	-	394+07'MPE'	MILLPOND RD	-	-	182	-	-	-	-	
		44+33'E'	-	45+17'E'	RAMP 'E'	-	-	-	-	-	-	-	
					GOLF COURSE ACCESS	-	-	-	-	115	-	-	
					SUBTOTALS	64	5,317	271	0	250	20	2	
					TOTAL 0020	64	5,317	271	0	250	20	2	
					PROJECT 3080-01-76 TOTAL	64	5317	271	711	250	30	3	

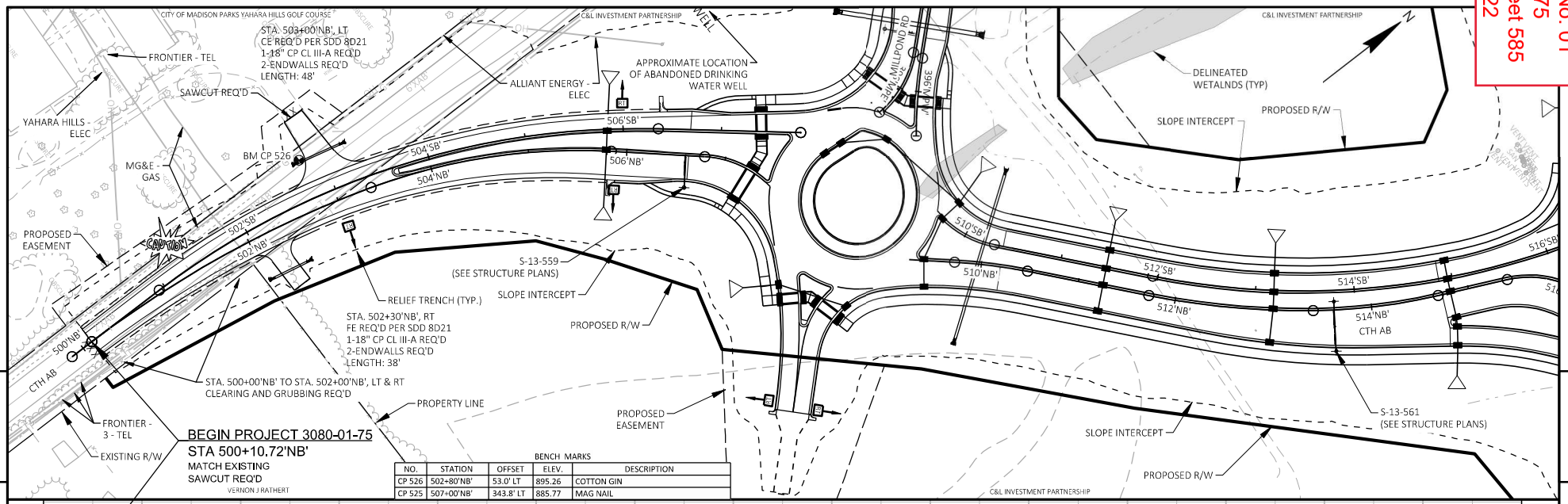
Addendum No. 01
ID 3080-01-76
Revised Sheet 548
June 28, 2022

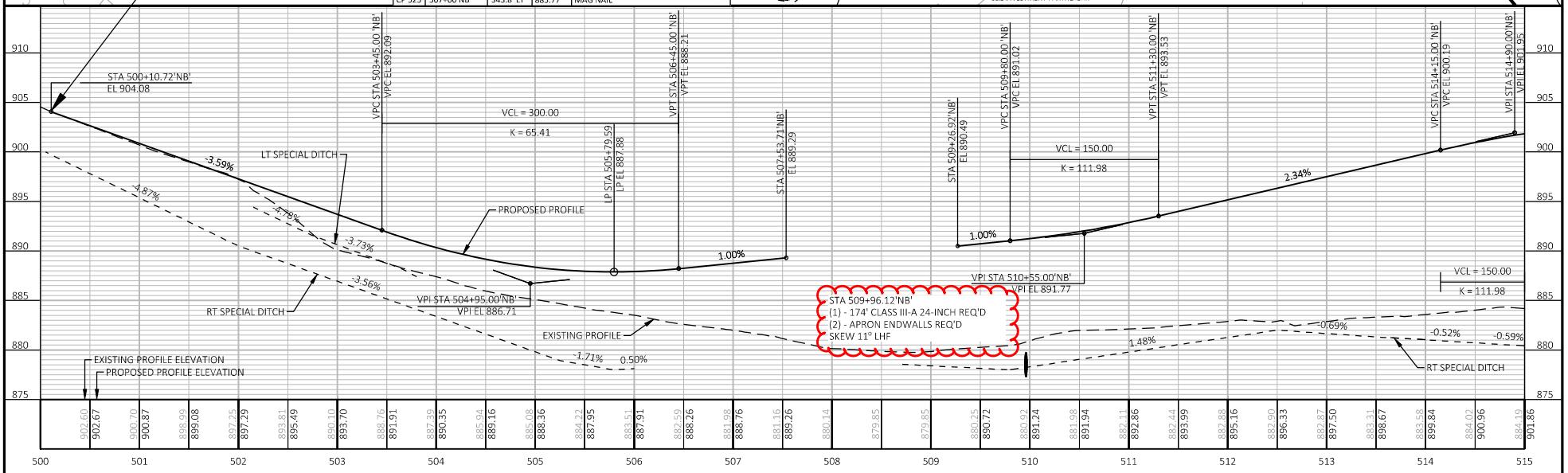
PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	MISCELLANEOUS QUANTITIES	SHEET 548	E

FILE NAME : X:\AE\D\DANEL\155379\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG PLOT DATE : 6/20/2022 8:13 AM PLOT BY : SEH PLOT NAME :

WISDOT/CADDS SHEET 42

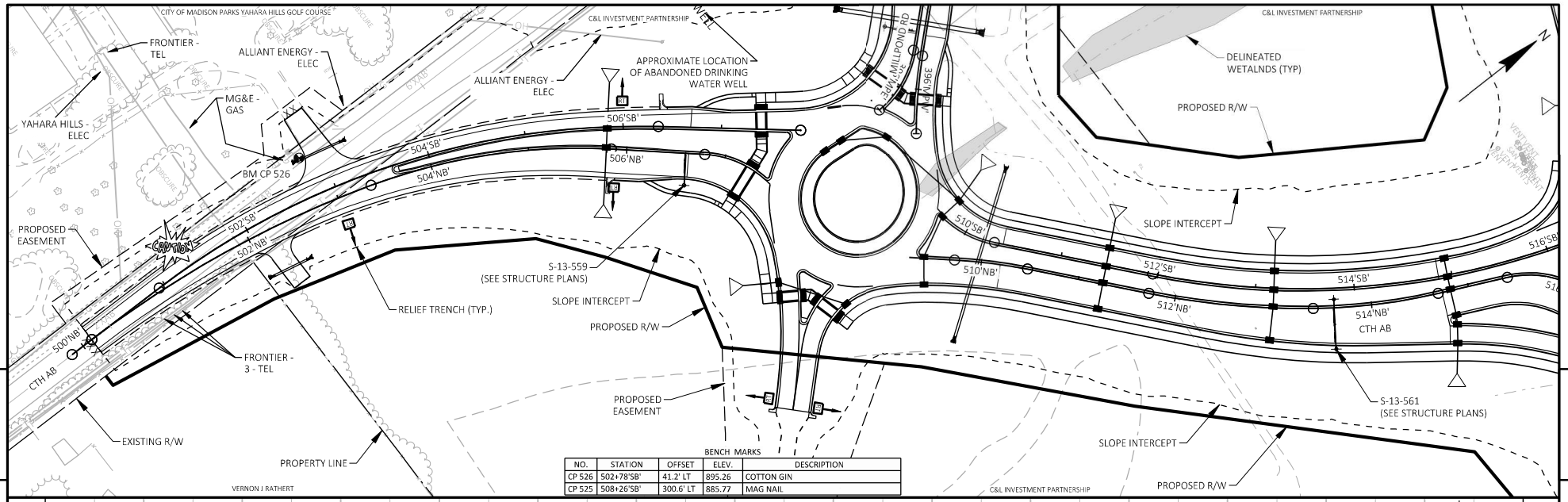
Addendum No. 01
ID 3080-01-75
Revised Sheet 585
June 28, 2022

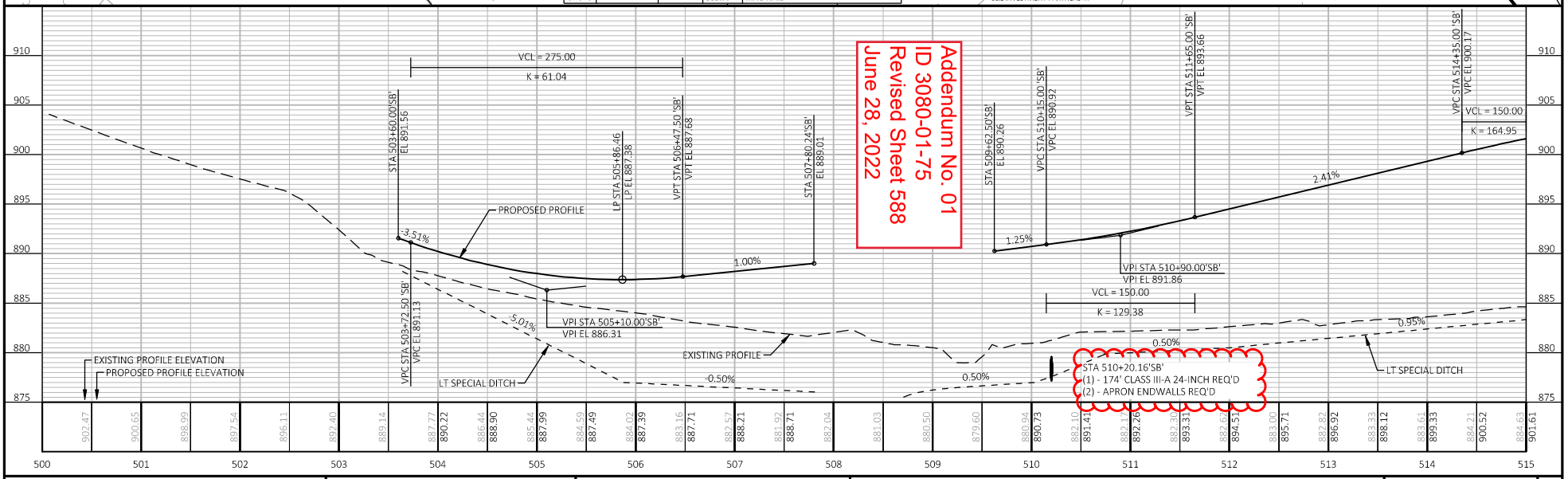




PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: CTH AB - 'NB'	SHEET 585	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050105_PP_CTH AB.DWG
LAYOUT NAME - nb_01
PLOT DATE : 6/20/2022 11:34 AM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



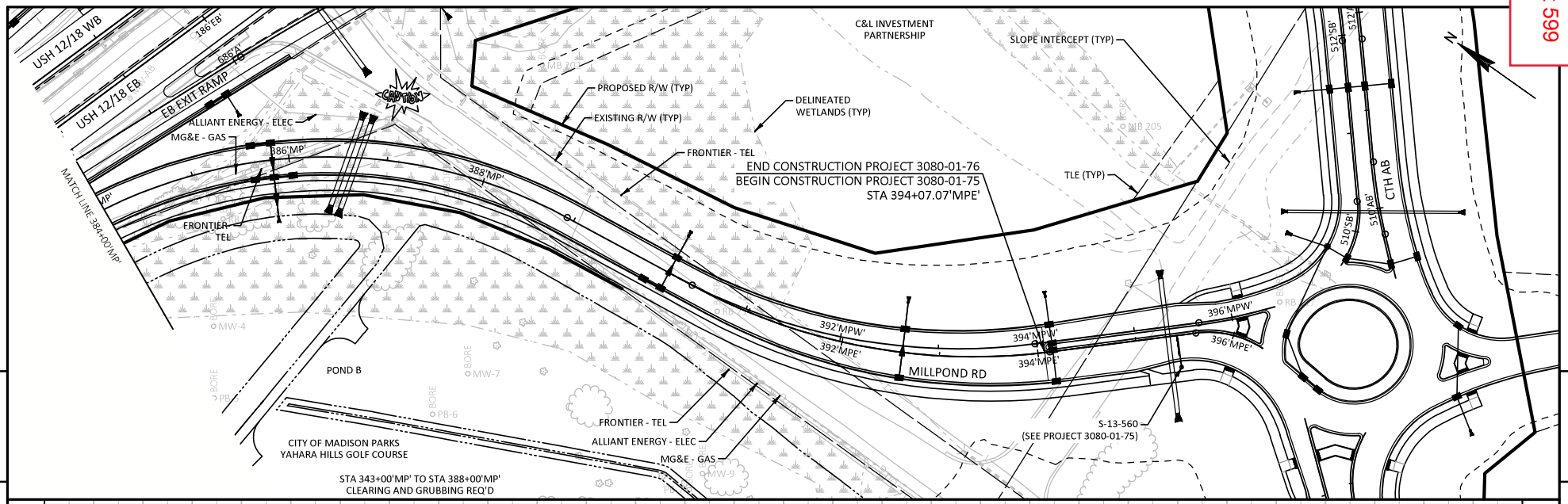


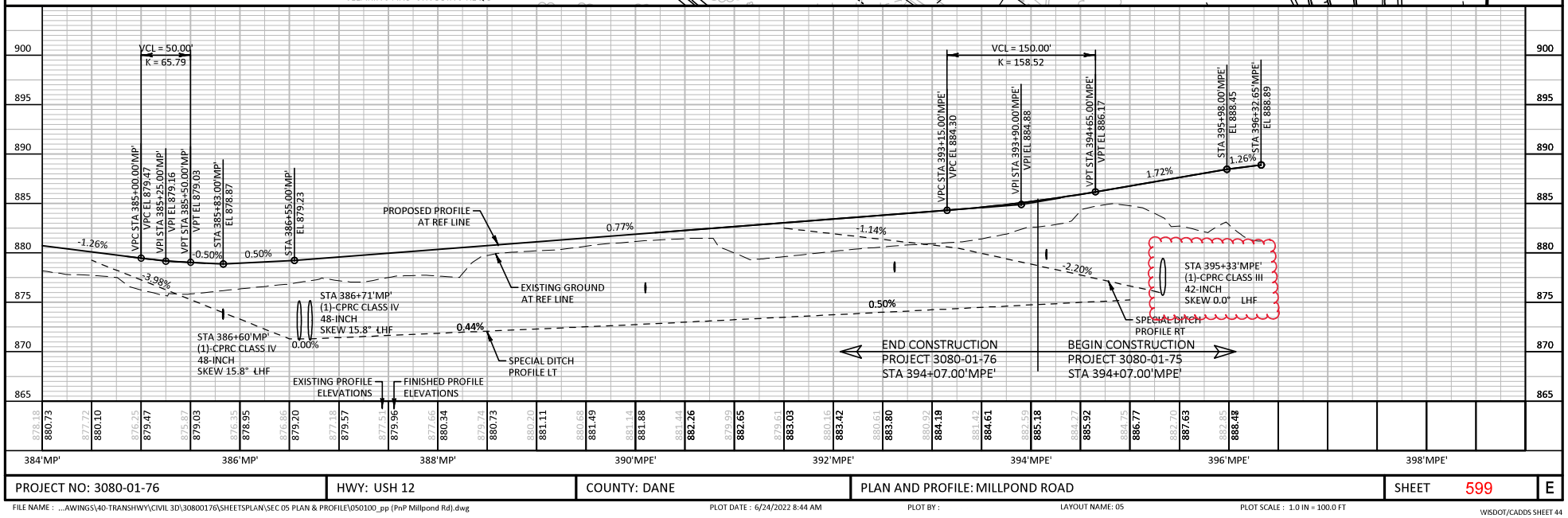
Addendum No. 01
ID 3080-01-75
Revised Sheet 588
June 28, 2022

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: CTH AB - 'SB'	SHEET 588	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\30800105_050105_PP_CTH AB.DWG
LAYOUT NAME - sb_01
PLOT DATE : 6/20/2022 11:34 AM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

Addendum No. 01
ID 3080-01-76
Revised Sheet 599
June 28, 2022

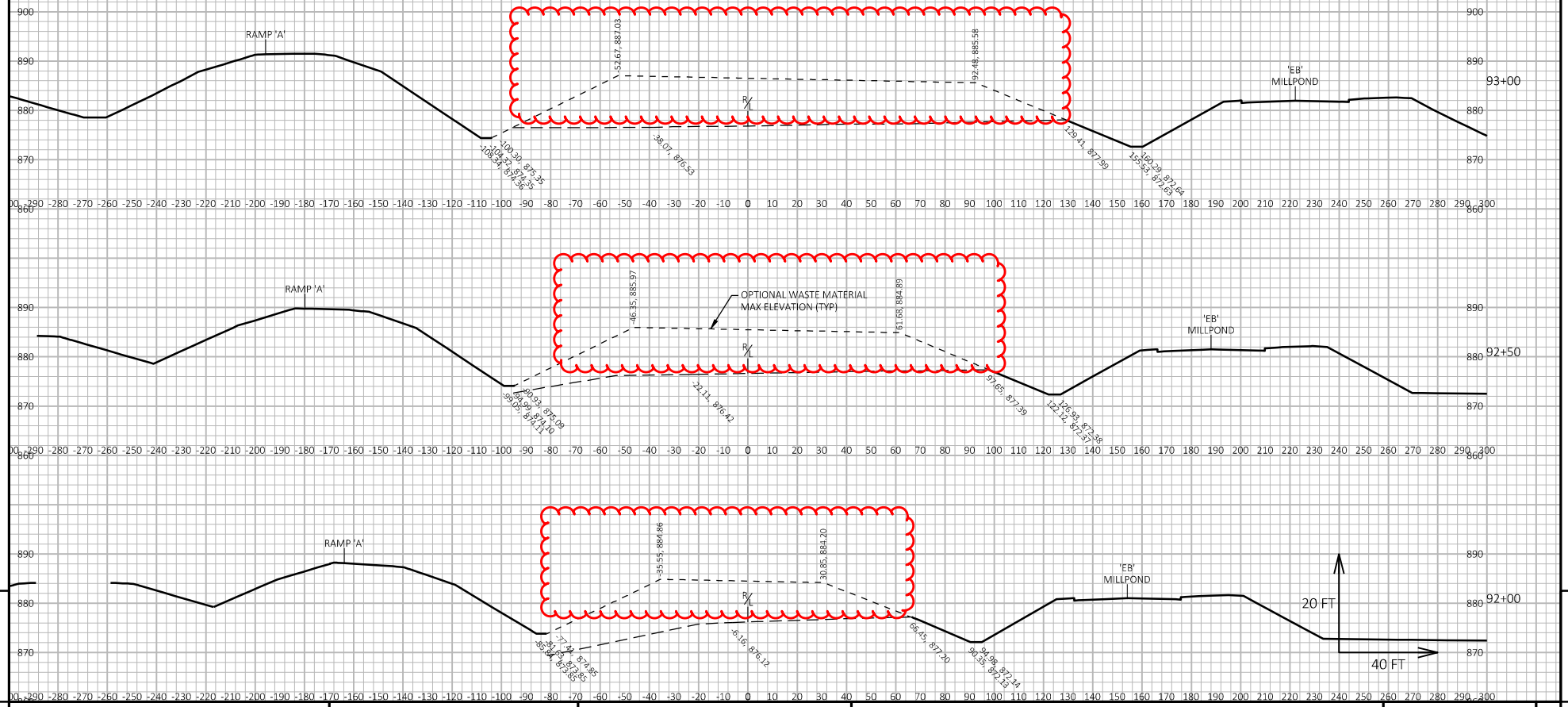




PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: MILLPOND ROAD	SHEET 599	E

FILE NAME : ...AWINGS\40-TRANSHWY\CIVIL 3D\30800176\SHEETSPLAN\SEC 05 PLAN & PROFILE\050100_pp (PnP Millpond Rd).dwg
PLOT DATE : 6/24/2022 8:44 AM
PLOT BY :
LAYOUT NAME: 05
PLOT SCALE : 1.0 IN = 100.0 FT
WISDOT/CADDS SHEET 44

Addendum No. 01
ID 3080-01-75
Revised Sheet 1323
June 28, 2022

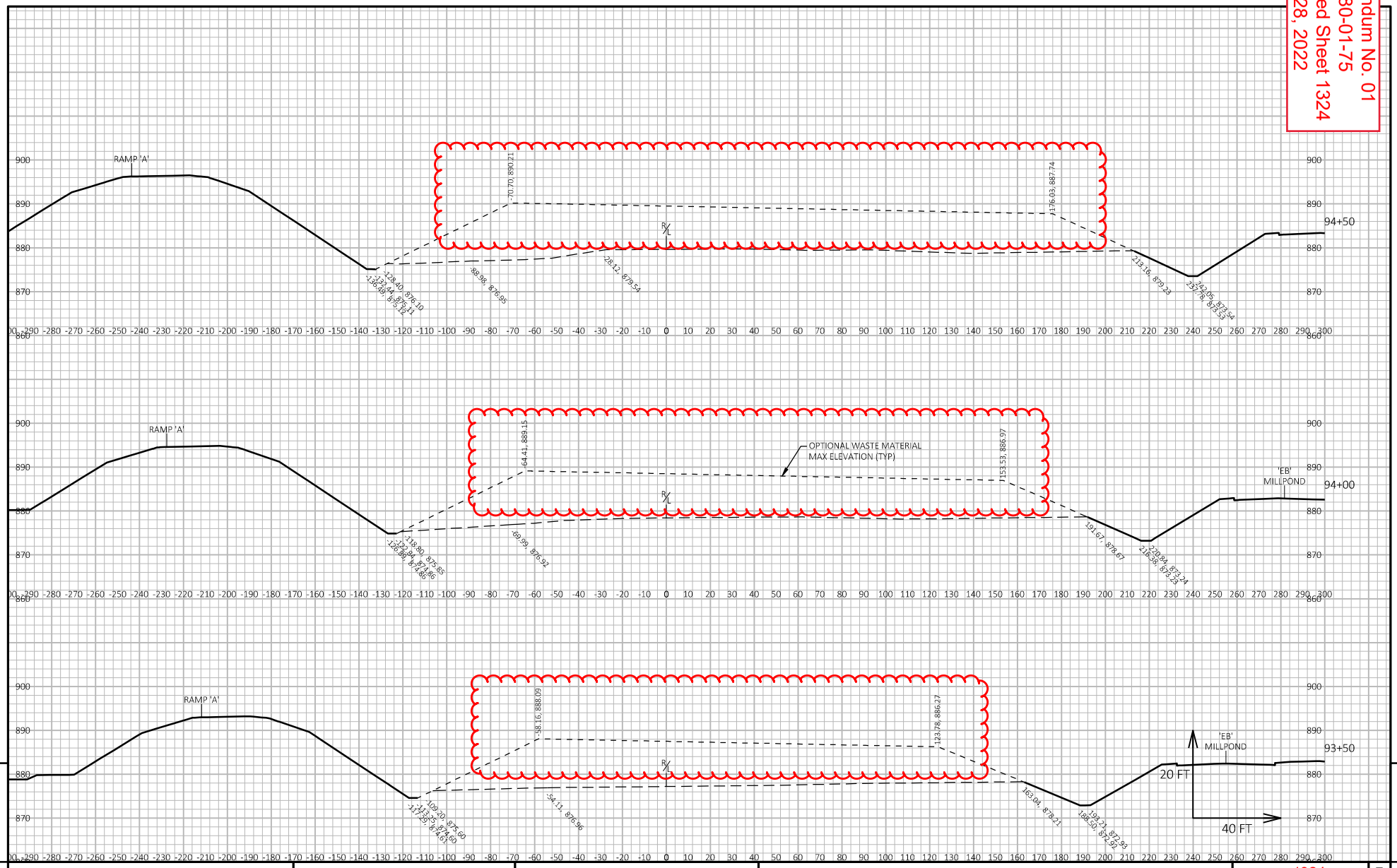


9 9

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1323	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_01
PLOT DATE : 6/17/2022 1:24 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

Addendum No. 01
ID 3080-01-75
Revised Sheet 1324
June 28, 2022

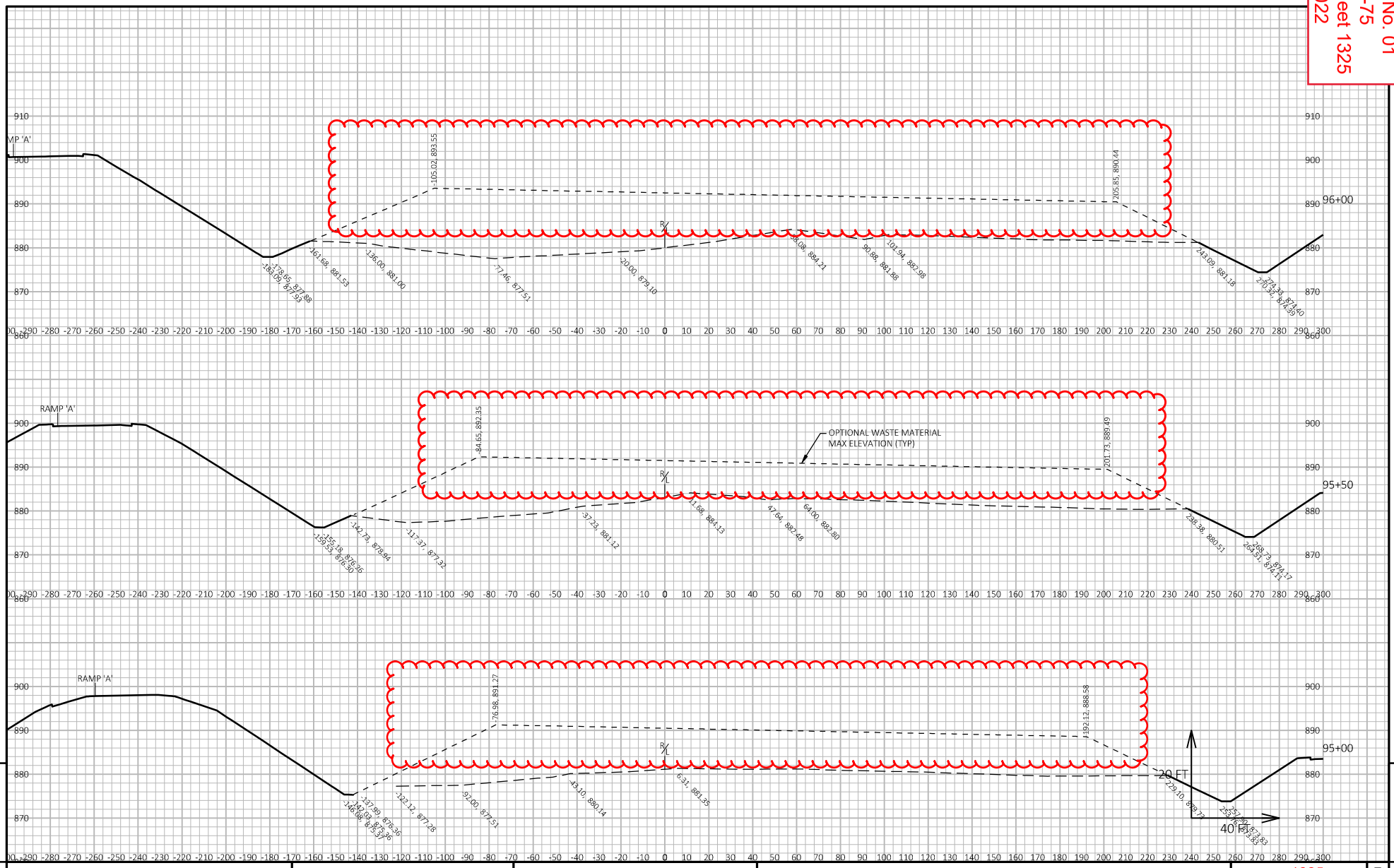


9 9

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1324	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_02
PLOT DATE : 6/17/2022 1:22 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

Addendum No. 01
ID 3080-01-75
Revised Sheet 1325
June 28, 2022

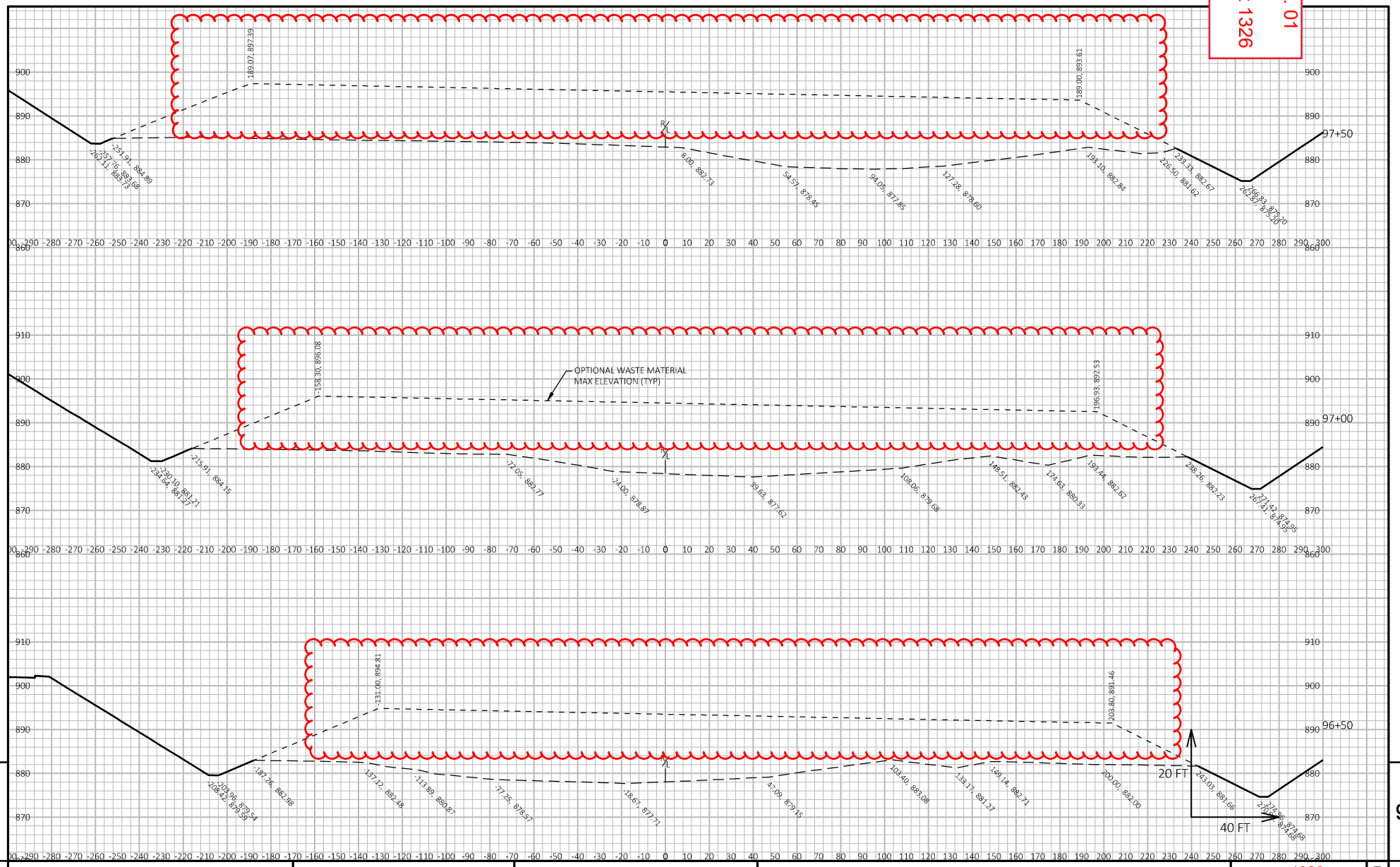


9 9

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1325	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_03
PLOT DATE : 6/17/2022 1:18 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.
WISDOT/CADDS SHEET 49

Addendum No. 01
ID 3080-01-75
Revised Sheet 1326
June 28, 2022

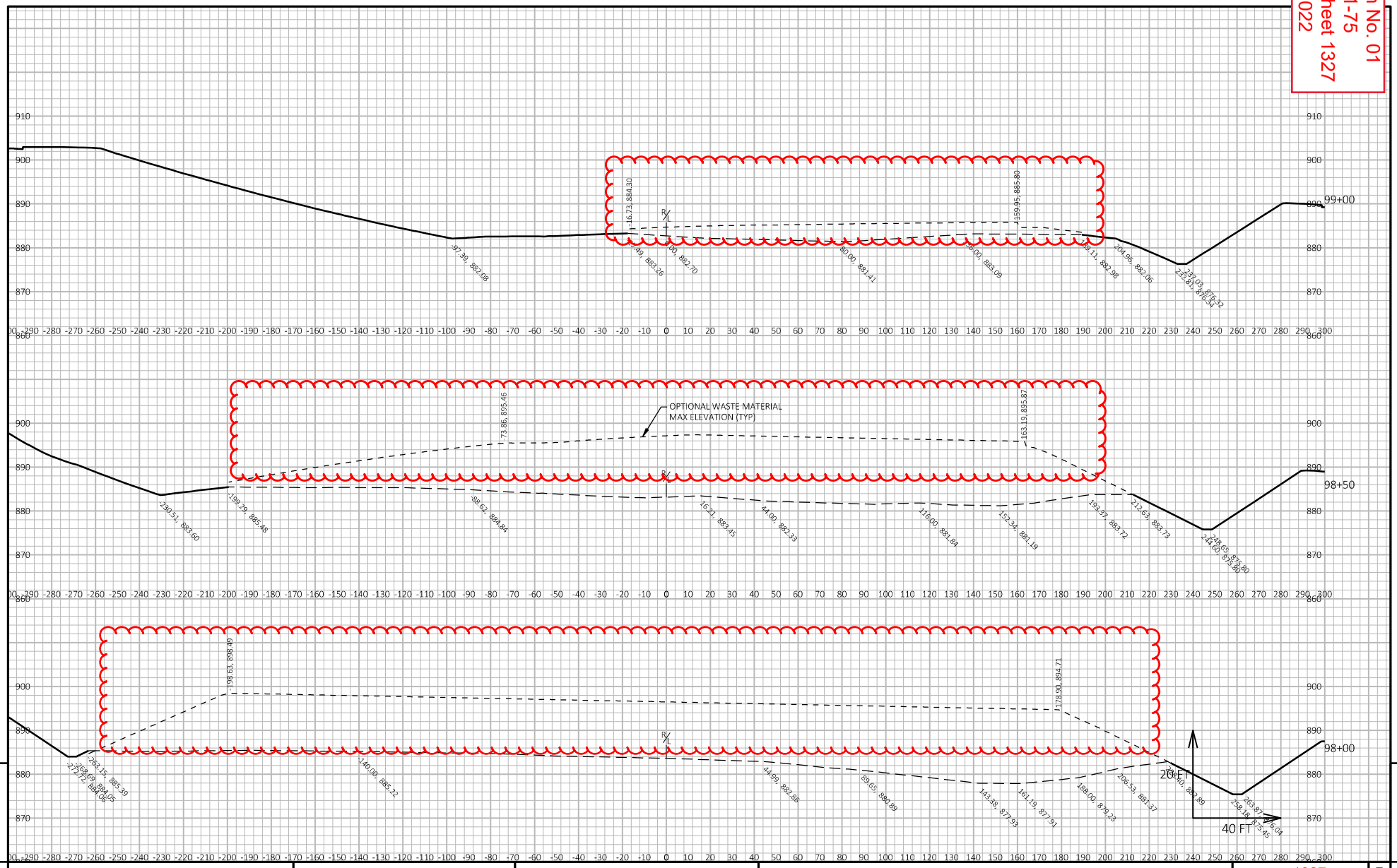


9 9

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1326	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_04
PLOT DATE : 6/17/2022 1:18 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

Addendum No. 01
ID 3080-01-75
Revised Sheet 1327
June 28, 2022



PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: MILLPOND INFIELD	SHEET 1327	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - IX_05
PLOT DATE : 6/17/2022 1:18 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT HORZ. / 1 IN:20 FT VERT.

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	108.4300 RBC Progress Schedule	1.000 EACH	_____.____	_____.____
0004	201.0105 Clearing	121.000 STA	_____.____	_____.____
0006	201.0115 Clearing	3.900 ACRE	_____.____	_____.____
0008	201.0205 Grubbing	121.000 STA	_____.____	_____.____
0010	201.0215 Grubbing	3.900 ACRE	_____.____	_____.____
0012	203.0100 Removing Small Pipe Culverts	41.000 EACH	_____.____	_____.____
0014	204.0100 Removing Concrete Pavement	17,845.000 SY	_____.____	_____.____
0016	204.0110 Removing Asphaltic Surface	9,939.000 SY	_____.____	_____.____
0018	204.0120 Removing Asphaltic Surface Milling	8,547.000 SY	_____.____	_____.____
0020	204.0150 Removing Curb & Gutter	1,636.000 LF	_____.____	_____.____
0022	204.0155 Removing Concrete Sidewalk	137.000 SY	_____.____	_____.____
0024	204.0170 Removing Fence	14,187.000 LF	_____.____	_____.____
0026	204.0180 Removing Delineators and Markers	8.000 EACH	_____.____	_____.____
0028	204.0195 Removing Concrete Bases	4.000 EACH	_____.____	_____.____
0030	204.0210 Removing Manholes	6.000 EACH	_____.____	_____.____
0032	204.0220 Removing Inlets	27.000 EACH	_____.____	_____.____
0034	204.0225 Removing Septic Tanks	2.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0036	204.0245 Removing Storm Sewer (size) 01. 12-Inch	688.000 LF	_____.____	_____.____
0038	204.0245 Removing Storm Sewer (size) 02. 15-Inch	137.000 LF	_____.____	_____.____
0040	204.0245 Removing Storm Sewer (size) 03. 18-Inch	915.000 LF	_____.____	_____.____
0042	204.0245 Removing Storm Sewer (size) 04. 24-Inch	513.000 LF	_____.____	_____.____
0044	204.0245 Removing Storm Sewer (size) 05. 36-Inch	243.000 LF	_____.____	_____.____
0046	204.0270 Abandoning Culvert Pipes	4.000 EACH	_____.____	_____.____
0048	204.0280 Sealing Pipes	1.000 EACH	_____.____	_____.____
0052	204.9060.S Removing (item description) 02. Existing Business Sign	2.000 EACH	_____.____	_____.____
0054	204.9060.S Removing (item description) 03. Existing Lighting Unit	1.000 EACH	_____.____	_____.____
0056	205.0100 Excavation Common	518,099.000 CY	_____.____	_____.____
0058	205.0400 Excavation Marsh	6,210.000 CY	_____.____	_____.____
0060	206.1000 Excavation for Structures Bridges (structure) 01. B-13-0893	 LS	LUMP SUM	_____.____
0062	209.2100 Backfill Granular Grade 2	16,215.000 CY	_____.____	_____.____
0064	209.2500 Backfill Granular Grade 2	4,140.000 TON	_____.____	_____.____
0066	210.1500 Backfill Structure Type A	534.000 TON	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0068	213.0100 Finishing Roadway (project) 01. 3080-01-75	1.000 EACH	_____.____	_____.____
0070	213.0100 Finishing Roadway (project) 02. 3080-01-76	1.000 EACH	_____.____	_____.____
0072	214.0100 Obliterating Old Road	4.000 STA	_____.____	_____.____
0074	305.0110 Base Aggregate Dense 3/4-Inch	3,910.000 TON	_____.____	_____.____
0076	305.0120 Base Aggregate Dense 1 1/4-Inch	86,472.000 TON	_____.____	_____.____
0078	305.0130 Base Aggregate Dense 3-Inch	28,179.000 TON	_____.____	_____.____
0080	305.0500 Shaping Shoulders	186.000 STA	_____.____	_____.____
0082	310.0110 Base Aggregate Open-Graded	862.000 TON	_____.____	_____.____
0084	312.0110 Select Crushed Material	69,647.000 TON	_____.____	_____.____
0086	371.2000.S QMP Base Aggregate Dense 1 1/4-Inch Compaction	12.000 EACH	_____.____	_____.____
0088	405.0100 Coloring Concrete WisDOT Red	552.000 CY	_____.____	_____.____
0090	415.0060 Concrete Pavement 6-Inch	124.000 SY	_____.____	_____.____
0092	415.0090 Concrete Pavement 9-Inch	28,521.000 SY	_____.____	_____.____
0094	415.0410 Concrete Pavement Approach Slab	160.000 SY	_____.____	_____.____
0096	416.0160 Concrete Driveway 6-Inch	62.000 SY	_____.____	_____.____
0098	416.0512 Concrete Truck Apron 12-Inch	1,660.000 SY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0100	416.0610 Drilled Tie Bars	934.000 EACH	_____.____	_____.____
0102	416.0620 Drilled Dowel Bars	1,774.000 EACH	_____.____	_____.____
0104	416.1715 Concrete Pavement Repair SHES	602.000 SY	_____.____	_____.____
0106	416.1725 Concrete Pavement Replacement SHES	1,586.000 SY	_____.____	_____.____
0108	450.4000 HMA Cold Weather Paving	2,925.000 TON	_____.____	_____.____
0110	455.0605 Tack Coat	5,792.000 GAL	_____.____	_____.____
0112	460.2000 Incentive Density HMA Pavement	14,060.000 DOL	1.00000	14,060.00
0114	460.5223 HMA Pavement 3 LT 58-28 S	360.000 TON	_____.____	_____.____
0116	460.5224 HMA Pavement 4 LT 58-28 S	290.000 TON	_____.____	_____.____
0118	460.6223 HMA Pavement 3 MT 58-28 S	9,982.000 TON	_____.____	_____.____
0120	460.6224 HMA Pavement 4 MT 58-28 S	10,968.000 TON	_____.____	_____.____
0122	460.6424 HMA Pavement 4 MT 58-28 H	345.000 TON	_____.____	_____.____
0124	465.0105 Asphaltic Surface	1,638.000 TON	_____.____	_____.____
0126	465.0120 Asphaltic Surface Driveways and Field Entrances	45.000 TON	_____.____	_____.____
0128	465.0125 Asphaltic Surface Temporary	1,440.000 TON	_____.____	_____.____
0130	465.0305 Asphaltic Surface Safety Islands	8.000 TON	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0132	465.0310 Asphaltic Curb	658.000 LF	_____.____	_____.____
0134	465.0315 Asphaltic Flumes	368.000 SY	_____.____	_____.____
0136	465.0400 Asphaltic Shoulder Rumble Strips	34,905.000 LF	_____.____	_____.____
0138	501.1000.S Ice Hot Weather Concreting	15,655.000 LB	_____.____	_____.____
0140	502.0100 Concrete Masonry Bridges	1,240.000 CY	_____.____	_____.____
0142	502.3200 Protective Surface Treatment	1,701.000 SY	_____.____	_____.____
0144	503.0137 Prestressed Girder Type I 36W-Inch	1,028.000 LF	_____.____	_____.____
0146	505.0400 Bar Steel Reinforcement HS Structures	19,880.000 LB	_____.____	_____.____
0148	505.0600 Bar Steel Reinforcement HS Coated Structures	189,140.000 LB	_____.____	_____.____
0150	505.0800.S Bar Steel Reinforcement HS Stainless Structures	3,060.000 LB	_____.____	_____.____
0152	506.2605 Bearing Pads Elastomeric Non-Laminated	28.000 EACH	_____.____	_____.____
0154	506.4000 Steel Diaphragms (structure) 01. B-13-0893	12.000 EACH	_____.____	_____.____
0156	511.1300 Temporary Shoring (location) 01. R-13-0371	1,665.000 SF	_____.____	_____.____
0158	513.4091 Railing Tubular Screening	747.000 LF	_____.____	_____.____
0160	516.0500 Rubberized Membrane Waterproofing	36.000 SY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0162	517.1010.S Concrete Staining (structure) 01. B-13-0893	10,551.000 SF	_____.____	_____.____
0164	517.1010.S Concrete Staining (structure) 02. R-13-0370	2,222.000 SF	_____.____	_____.____
0166	517.1010.S Concrete Staining (structure) 03. R-13-0371	2,207.000 SF	_____.____	_____.____
0168	517.1050.S Architectural Surface Treatment (structure) 01. B-13-0893	726.000 SF	_____.____	_____.____
0170	517.1050.S Architectural Surface Treatment (structure) 02. R-13-0370	1,595.000 SF	_____.____	_____.____
0172	517.1050.S Architectural Surface Treatment (structure) 03. R-13-0371	1,581.000 SF	_____.____	_____.____
0174	520.2012 Culvert Pipe Temporary 12-Inch	132.000 LF	_____.____	_____.____
0176	520.2018 Culvert Pipe Temporary 18-Inch	62.000 LF	_____.____	_____.____
0178	520.2030 Culvert Pipe Temporary 30-Inch	42.000 LF	_____.____	_____.____
0180	520.8000 Concrete Collars for Pipe	5.000 EACH	_____.____	_____.____
0182	520.8700 Cleaning Culvert Pipes	4.000 EACH	_____.____	_____.____
0184	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	4.000 EACH	_____.____	_____.____
0186	521.1618 Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	2.000 EACH	_____.____	_____.____
0190	522.0112 Culvert Pipe Reinforced Concrete Class III 12-Inch	24.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0192	522.0115 Culvert Pipe Reinforced Concrete Class III 15-Inch	18.000 LF	_____.____	_____.____
0194	522.0124 Culvert Pipe Reinforced Concrete Class III 24-Inch	370.000 LF	_____.____	_____.____
0196	522.0136 Culvert Pipe Reinforced Concrete Class III 36-Inch	82.000 LF	_____.____	_____.____
0198	522.0142 Culvert Pipe Reinforced Concrete Class III 42-Inch	138.000 LF	_____.____	_____.____
0200	522.0148 Culvert Pipe Reinforced Concrete Class III 48-Inch	484.000 LF	_____.____	_____.____
0202	522.0412 Culvert Pipe Reinforced Concrete Class IV 12-Inch	22.000 LF	_____.____	_____.____
0204	522.0415 Culvert Pipe Reinforced Concrete Class IV 15-Inch	32.000 LF	_____.____	_____.____
0206	522.0418 Culvert Pipe Reinforced Concrete Class IV 18-Inch	214.000 LF	_____.____	_____.____
0208	522.0430 Culvert Pipe Reinforced Concrete Class IV 30-Inch	266.000 LF	_____.____	_____.____
0210	522.0524 Culvert Pipe Reinforced Concrete Class V 24-Inch	336.000 LF	_____.____	_____.____
0212	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	8.000 EACH	_____.____	_____.____
0214	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	4.000 EACH	_____.____	_____.____
0216	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	28.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0218	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	17.000 EACH	_____.____	_____.____
0220	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	6.000 EACH	_____.____	_____.____
0222	522.1036 Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	5.000 EACH	_____.____	_____.____
0224	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	5.000 EACH	_____.____	_____.____
0226	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	7.000 EACH	_____.____	_____.____
0228	522.2329 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	310.000 LF	_____.____	_____.____
0230	522.2334 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	122.000 LF	_____.____	_____.____
0232	522.2629 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	2.000 EACH	_____.____	_____.____
0234	522.2634 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	2.000 EACH	_____.____	_____.____
0236	524.0615 Apron Endwalls for Culvert Pipe Salvaged 15-Inch	2.000 EACH	_____.____	_____.____
0238	530.0118 Culvert Pipe Corrugated Polyethylene 18-Inch	52.000 LF	_____.____	_____.____
0240	531.1100 Concrete Masonry Ancillary Structures Type NS	34.800 CY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0242	531.1140 Steel Reinforcement HS Ancillary Structures Type NS	4,298.000 LB	_____.____	_____.____
0244	531.1160 Steel Reinforcement HS Coated Ancillary Structures Type NS	1,100.000 LB	_____.____	_____.____
0246	531.2024 Drilling Shaft 24-Inch	149.000 LF	_____.____	_____.____
0248	531.2036 Drilling Shaft 36-Inch	177.000 LF	_____.____	_____.____
0250	531.2042 Drilling Shaft 42-Inch	36.000 LF	_____.____	_____.____
0252	531.2048 Drilling Shaft 48-Inch	56.000 LF	_____.____	_____.____
0254	531.4050 Foundation Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0256	531.5130 Foundation Single-Shaft Type MC-III (structure) 01. S-13-0559	1.000 EACH	_____.____	_____.____
0258	531.5130 Foundation Single-Shaft Type MC-III (structure) 02. S-13-0560	1.000 EACH	_____.____	_____.____
0260	531.5340 Foundation Single-Shaft Type TC-IV (structure) 01. S-13-0562	1.000 EACH	_____.____	_____.____
0262	531.5340 Foundation Single-Shaft Type TC-IV (structure) 02. S-13-0564	1.000 EACH	_____.____	_____.____
0264	531.5340 Foundation Single-Shaft Type TC-IV (structure) 03. S-13-0570	1.000 EACH	_____.____	_____.____
0266	531.5420 Foundation Single-Shaft Type TF-II (structure) 01. S-13-0561	2.000 EACH	_____.____	_____.____
0268	531.6010 Foundation Two-Shaft Type FC-I (structure) 01. S-13-0569	1.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0270	531.6020 Foundation Two-Shaft Type FC-II (structure) 01. S-13-0565	1.000 EACH	_____.____	_____.____
0272	531.8990 Anchor Assemblies Poles on Structures	2.000 EACH	_____.____	_____.____
0274	532.5130 Monotube Cantilever Type III (structure) 01. S-13-0559	1.000 EACH	_____.____	_____.____
0276	532.5130 Monotube Cantilever Type III (structure) 02. S-13-0560	1.000 EACH	_____.____	_____.____
0278	532.5340 Truss Cantilever 2-Chord Type IV (structure) 01. S-13-0562	1.000 EACH	_____.____	_____.____
0280	532.5340 Truss Cantilever 2-Chord Type IV (structure) 02. S-13-0564	1.000 EACH	_____.____	_____.____
0282	532.5340 Truss Cantilever 2-Chord Type IV (structure) 03. S-13-0570	1.000 EACH	_____.____	_____.____
0284	532.5400 Truss Full Span 2-Chord Type NS (structure) 01. S-13-0563	1.000 EACH	_____.____	_____.____
0286	532.5420 Truss Full Span 2-Chord Type II (structure) 01. S-13-0561	1.000 EACH	_____.____	_____.____
0288	532.6010 Truss Cantilever 4-Chord Type I (structure) 01. S-13-0569	1.000 EACH	_____.____	_____.____
0290	532.6010 Truss Cantilever 4-Chord Type I (structure) 02. S-13-0571	1.000 EACH	_____.____	_____.____
0292	532.6020 Truss Cantilever 4-Chord Type II (structure) 01. S-13-0565	1.000 EACH	_____.____	_____.____
0294	550.1100 Piling Steel HP 10-Inch X 42 Lb	5,292.000 LF	_____.____	_____.____
0296	601.0405 Concrete Curb & Gutter 18-Inch Type A	866.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0298	601.0409 Concrete Curb & Gutter 30-Inch Type A	7,079.000 LF	_____.____	_____.____
0300	601.0411 Concrete Curb & Gutter 30-Inch Type D	21,563.000 LF	_____.____	_____.____
0302	601.0551 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	557.000 LF	_____.____	_____.____
0304	601.0553 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	895.000 LF	_____.____	_____.____
0306	601.0580 Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	1,417.000 LF	_____.____	_____.____
0308	601.0600 Concrete Curb Pedestrian	392.000 LF	_____.____	_____.____
0310	602.0405 Concrete Sidewalk 4-Inch	38,771.000 SF	_____.____	_____.____
0312	602.0410 Concrete Sidewalk 5-Inch	22,533.000 SF	_____.____	_____.____
0314	602.0415 Concrete Sidewalk 6-Inch	2,855.000 SF	_____.____	_____.____
0316	602.0515 Curb Ramp Detectable Warning Field Natural Patina	636.000 SF	_____.____	_____.____
0318	602.0615 Curb Ramp Detectable Warning Field Radial Natural Patina	58.000 SF	_____.____	_____.____
0320	603.1142 Concrete Barrier Type S42	5,864.000 LF	_____.____	_____.____
0322	603.8000 Concrete Barrier Temporary Precast Delivered	5,225.000 LF	_____.____	_____.____
0324	603.8125 Concrete Barrier Temporary Precast Installed	5,350.000 LF	_____.____	_____.____
0326	604.0400 Slope Paving Concrete	49.000 SY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0328	606.0200 Riprap Medium	997.000 CY	_____.____	_____.____
0330	606.0300 Riprap Heavy	166.000 CY	_____.____	_____.____
0332	608.0115 Relaid Storm Sewer 15-Inch	104.000 LF	_____.____	_____.____
0334	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	1,284.000 LF	_____.____	_____.____
0336	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	1,000.000 LF	_____.____	_____.____
0338	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	561.000 LF	_____.____	_____.____
0342	608.0336 Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	506.000 LF	_____.____	_____.____
0344	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	1,935.000 LF	_____.____	_____.____
0346	608.0348 Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	743.000 LF	_____.____	_____.____
0348	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	602.000 LF	_____.____	_____.____
0350	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	243.000 LF	_____.____	_____.____
0352	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	239.000 LF	_____.____	_____.____
0354	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	227.000 LF	_____.____	_____.____
0356	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	767.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0358	611.0535 Manhole Covers Type J-Special	28.000 EACH	_____.____	_____.____
0360	611.0610 Inlet Covers Type BW	18.000 EACH	_____.____	_____.____
0362	611.0624 Inlet Covers Type H	89.000 EACH	_____.____	_____.____
0364	611.0627 Inlet Covers Type HM	3.000 EACH	_____.____	_____.____
0366	611.0636 Inlet Covers Type HM-S	3.000 EACH	_____.____	_____.____
0368	611.0639 Inlet Covers Type H-S	45.000 EACH	_____.____	_____.____
0370	611.0642 Inlet Covers Type MS	16.000 EACH	_____.____	_____.____
0372	611.0652 Inlet Covers Type T	11.000 EACH	_____.____	_____.____
0374	611.2005 Manholes 5-FT Diameter	7.000 EACH	_____.____	_____.____
0376	611.3004 Inlets 4-FT Diameter	14.000 EACH	_____.____	_____.____
0378	611.3225 Inlets 2x2.5-FT	15.000 EACH	_____.____	_____.____
0380	611.3230 Inlets 2x3-FT	57.000 EACH	_____.____	_____.____
0382	611.3901 Inlets Median 1 Grate	2.000 EACH	_____.____	_____.____
0384	611.3902 Inlets Median 2 Grate	7.000 EACH	_____.____	_____.____
0386	611.8120.S Cover Plates Temporary	8.000 EACH	_____.____	_____.____
0388	611.9800.S Pipe Grates	18.000 EACH	_____.____	_____.____
0390	612.0106 Pipe Underdrain 6-Inch	12,224.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0392	612.0206 Pipe Underdrain Unperforated 6-Inch	17.000 LF	_____.____	_____.____
0394	612.0406 Pipe Underdrain Wrapped 6-Inch	390.000 LF	_____.____	_____.____
0396	614.0220 Steel Thrie Beam Bullnose Terminal	2.000 EACH	_____.____	_____.____
0398	614.0230 Steel Thrie Beam	226.600 LF	_____.____	_____.____
0400	614.0905 Crash Cushions Temporary	5.000 EACH	_____.____	_____.____
0402	614.2300 MGS Guardrail 3	283.000 LF	_____.____	_____.____
0404	614.2500 MGS Thrie Beam Transition	236.000 LF	_____.____	_____.____
0406	614.2610 MGS Guardrail Terminal EAT	6.000 EACH	_____.____	_____.____
0408	616.0100 Fence Woven Wire (height) 01. 4-FT	10,780.000 LF	_____.____	_____.____
0410	616.0350.S Gates Wood Single Leaf (length) 01. 16-FT	1.000 EACH	_____.____	_____.____
0412	616.0406 Fence Chain Link Salvaged 6-FT	880.000 LF	_____.____	_____.____
0414	616.0700.S Fence Safety	6,590.000 LF	_____.____	_____.____
0416	618.0100 Maintenance And Repair of Haul Roads (project) 01. 3080-01-40	1.000 EACH	_____.____	_____.____
0418	618.0100 Maintenance And Repair of Haul Roads (project) 02. 3080-01-75	1.000 EACH	_____.____	_____.____
0420	618.0100 Maintenance And Repair of Haul Roads (project) 03. 3080-01-76	1.000 EACH	_____.____	_____.____
0422	619.1000 Mobilization	1.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0424	620.0300 Concrete Median Sloped Nose	714.000 SF	_____.____	_____.____
0426	623.0200 Dust Control Surface Treatment	241,423.000 SY	_____.____	_____.____
0428	624.0100 Water	1,156.000 MGAL	_____.____	_____.____
0430	625.0500 Salvaged Topsoil	376,490.000 SY	_____.____	_____.____
0432	627.0200 Mulching	236,161.000 SY	_____.____	_____.____
0434	628.1504 Silt Fence	6,079.000 LF	_____.____	_____.____
0436	628.1520 Silt Fence Maintenance	6,079.000 LF	_____.____	_____.____
0438	628.1905 Mobilizations Erosion Control	19.000 EACH	_____.____	_____.____
0440	628.1910 Mobilizations Emergency Erosion Control	19.000 EACH	_____.____	_____.____
0442	628.2004 Erosion Mat Class I Type B	71,628.000 SY	_____.____	_____.____
0444	628.2008 Erosion Mat Urban Class I Type B	42,585.000 SY	_____.____	_____.____
0446	628.2023 Erosion Mat Class II Type B	28,485.000 SY	_____.____	_____.____
0448	628.7005 Inlet Protection Type A	233.000 EACH	_____.____	_____.____
0450	628.7010 Inlet Protection Type B	27.000 EACH	_____.____	_____.____
0452	628.7015 Inlet Protection Type C	159.000 EACH	_____.____	_____.____
0454	628.7020 Inlet Protection Type D	28.000 EACH	_____.____	_____.____
0456	628.7504 Temporary Ditch Checks	1,087.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0458	628.7555 Culvert Pipe Checks	190.000 EACH	_____.____	_____.____
0460	628.7560 Tracking Pads	10.000 EACH	_____.____	_____.____
0462	628.7570 Rock Bags	120.000 EACH	_____.____	_____.____
0464	629.0205 Fertilizer Type A	251.200 CWT	_____.____	_____.____
0466	630.0110 Seeding Mixture No. 10	1,698.000 LB	_____.____	_____.____
0468	630.0120 Seeding Mixture No. 20	2,750.000 LB	_____.____	_____.____
0470	630.0130 Seeding Mixture No. 30	2,653.000 LB	_____.____	_____.____
0472	630.0140 Seeding Mixture No. 40	353.000 LB	_____.____	_____.____
0474	630.0200 Seeding Temporary	10,651.000 LB	_____.____	_____.____
0476	630.0500 Seed Water	18,563.000 MGAL	_____.____	_____.____
0478	631.1000 Sod Lawn	72.000 SY	_____.____	_____.____
0480	631.1100 Sod Erosion Control	34.000 SY	_____.____	_____.____
0482	633.0100 Delineator Posts Steel	89.000 EACH	_____.____	_____.____
0484	633.0500 Delineator Reflectors	117.000 EACH	_____.____	_____.____
0486	633.1000 Delineators Barrier Wall	31.000 EACH	_____.____	_____.____
0488	633.5200 Markers Culvert End	69.000 EACH	_____.____	_____.____
0490	634.0612 Posts Wood 4x6-Inch X 12-FT	5.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0492	634.0614 Posts Wood 4x6-Inch X 14-FT	95.000 EACH	_____.____	_____.____
0494	634.0616 Posts Wood 4x6-Inch X 16-FT	45.000 EACH	_____.____	_____.____
0496	634.0618 Posts Wood 4x6-Inch X 18-FT	48.000 EACH	_____.____	_____.____
0498	634.0620 Posts Wood 4x6-Inch X 20-FT	4.000 EACH	_____.____	_____.____
0500	634.0622 Posts Wood 4x6-Inch X 22-FT	2.000 EACH	_____.____	_____.____
0502	635.0200 Sign Supports Structural Steel HS	8,241.000 LB	_____.____	_____.____
0504	637.0620 Sign Flags Permanent Type II	70.000 EACH	_____.____	_____.____
0506	637.1220 Signs Type I Reflective SH	2,727.500 SF	_____.____	_____.____
0508	637.2210 Signs Type II Reflective H	1,304.180 SF	_____.____	_____.____
0510	637.2220 Signs Type II Reflective SH	13.500 SF	_____.____	_____.____
0512	637.2230 Signs Type II Reflective F	400.500 SF	_____.____	_____.____
0514	638.2102 Moving Signs Type II	40.000 EACH	_____.____	_____.____
0516	638.2602 Removing Signs Type II	110.000 EACH	_____.____	_____.____
0518	638.3000 Removing Small Sign Supports	101.000 EACH	_____.____	_____.____
0520	640.1303.S Pond Liner Clay	26,680.000 CY	_____.____	_____.____
0522	642.5401 Field Office Type D	1.000 EACH	_____.____	_____.____
0524	643.0300 Traffic Control Drums	112,658.000 DAY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0526	643.0420 Traffic Control Barricades Type III	8,064.000 DAY	_____.____	_____.____
0528	643.0500 Traffic Control Flexible Tubular Marker Posts	15.000 EACH	_____.____	_____.____
0530	643.0600 Traffic Control Flexible Tubular Marker Bases	15.000 EACH	_____.____	_____.____
0532	643.0705 Traffic Control Warning Lights Type A	16,118.000 DAY	_____.____	_____.____
0534	643.0715 Traffic Control Warning Lights Type C	8,403.000 DAY	_____.____	_____.____
0536	643.0800 Traffic Control Arrow Boards	831.000 DAY	_____.____	_____.____
0538	643.0900 Traffic Control Signs	55,928.000 DAY	_____.____	_____.____
0540	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.____	_____.____
0542	643.1000 Traffic Control Signs Fixed Message	220.000 SF	_____.____	_____.____
0544	643.1050 Traffic Control Signs PCMS	426.000 DAY	_____.____	_____.____
0546	643.5000 Traffic Control	1.000 EACH	_____.____	_____.____
0548	644.1810 Temporary Pedestrian Barricade	42.000 LF	_____.____	_____.____
0550	645.0111 Geotextile Type DF Schedule A	6,128.000 SY	_____.____	_____.____
0552	645.0120 Geotextile Type HR	2,801.000 SY	_____.____	_____.____
0554	645.0135 Geotextile Type SR	4,600.000 SY	_____.____	_____.____
0556	645.0220 Geogrid Type SR	9,700.000 SY	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0558	646.1020 Marking Line Epoxy 4-Inch	43,181.000 LF	_____.____	_____.____
0560	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch	47,680.000 LF	_____.____	_____.____
0562	646.1555 Marking Line Grooved Contrast Permanent Tape 4-Inch	4,890.000 LF	_____.____	_____.____
0564	646.3020 Marking Line Epoxy 8-Inch	4,608.000 LF	_____.____	_____.____
0566	646.3555 Marking Line Grooved Contrast Permanent Tape 8-Inch	5,212.000 LF	_____.____	_____.____
0568	646.5020 Marking Arrow Epoxy	33.000 EACH	_____.____	_____.____
0570	646.6120 Marking Stop Line Epoxy 18-Inch	26.000 LF	_____.____	_____.____
0572	646.6320 Marking Dotted Extension Epoxy 18-Inch	354.000 LF	_____.____	_____.____
0574	646.6464 Cold Weather Marking Epoxy 4-Inch	4,812.000 LF	_____.____	_____.____
0576	646.7120 Marking Diagonal Epoxy 12-Inch	680.000 LF	_____.____	_____.____
0578	646.7220 Marking Chevron Epoxy 24-Inch	711.000 LF	_____.____	_____.____
0580	646.7420 Marking Crosswalk Epoxy Transverse Line 6-Inch	865.000 LF	_____.____	_____.____
0582	646.8120 Marking Curb Epoxy	96.000 LF	_____.____	_____.____
0584	646.8220 Marking Island Nose Epoxy	7.000 EACH	_____.____	_____.____
0586	646.9000 Marking Removal Line 4-Inch	15,405.000 LF	_____.____	_____.____
0588	646.9100 Marking Removal Line 8-Inch	200.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0590	646.9200 Marking Removal Line Wide	16.000 LF	_____.____	_____.____
0592	646.9300 Marking Removal Special Marking	2.000 EACH	_____.____	_____.____
0594	649.0105 Temporary Marking Line Paint 4-Inch	18,520.000 LF	_____.____	_____.____
0596	649.0120 Temporary Marking Line Epoxy 4-Inch	2,990.000 LF	_____.____	_____.____
0598	649.0150 Temporary Marking Line Removable Tape 4-Inch	22,755.000 LF	_____.____	_____.____
0600	649.0220 Temporary Marking Line Epoxy 8-Inch	200.000 LF	_____.____	_____.____
0602	649.0250 Temporary Marking Line Removable Tape 8-Inch	880.000 LF	_____.____	_____.____
0604	649.0520 Temporary Marking Arrow Epoxy	2.000 EACH	_____.____	_____.____
0606	649.0760 Temporary Marking Raised Pavement Marker Type I	102.000 EACH	_____.____	_____.____
0608	649.0820 Temporary Marking Stop Line Epoxy 18-Inch	44.000 LF	_____.____	_____.____
0610	649.0850 Temporary Marking Stop Line Removable Tape 18-Inch	74.000 LF	_____.____	_____.____
0612	649.0960 Temporary Marking Removable Mask Out Tape 6-Inch	40.000 LF	_____.____	_____.____
0614	652.0125 Conduit Rigid Metallic 2-Inch	32.000 LF	_____.____	_____.____
0616	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	14,326.000 LF	_____.____	_____.____
0618	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	1,142.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0620	652.0335 Conduit Rigid Nonmetallic Schedule 80 3-Inch	445.000 LF	_____.____	_____.____
0622	652.0700.S Install Conduit into Existing Item	1.000 EACH	_____.____	_____.____
0624	653.0140 Pull Boxes Steel 24x42-Inch	72.000 EACH	_____.____	_____.____
0626	653.0222 Junction Boxes 18x12x6-Inch	2.000 EACH	_____.____	_____.____
0628	654.0105 Concrete Bases Type 5	32.000 EACH	_____.____	_____.____
0630	654.0230 Concrete Control Cabinet Bases Type L30	4.000 EACH	_____.____	_____.____
0632	655.0515 Electrical Wire Traffic Signals 10 AWG	5,575.000 LF	_____.____	_____.____
0634	655.0610 Electrical Wire Lighting 12 AWG	13,116.000 LF	_____.____	_____.____
0636	655.0615 Electrical Wire Lighting 10 AWG	23,862.000 LF	_____.____	_____.____
0638	655.0620 Electrical Wire Lighting 8 AWG	34,730.000 LF	_____.____	_____.____
0640	655.0625 Electrical Wire Lighting 6 AWG	20,649.000 LF	_____.____	_____.____
0642	656.0200 Electrical Service Meter Breaker Pedestal (location) 01. 325+31.89 'MP'	LS	LUMP SUM	_____.____
0644	656.0200 Electrical Service Meter Breaker Pedestal (location) 02. 393+42.75 'MP'	LS	LUMP SUM	_____.____
0646	656.0200 Electrical Service Meter Breaker Pedestal (location) 03. 393+56.17'MP'	LS	LUMP SUM	_____.____
0648	656.0200 Electrical Service Meter Breaker Pedestal (location) 04. 517+01.78'NB'	LS	LUMP SUM	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0650	656.0200 Electrical Service Meter Breaker Pedestal (location) 05. CCTV130188	LS	LUMP SUM	_____.____
0652	656.0500 Electrical Service Breaker Disconnect Box (location) 01. CCTV1301888	LS	LUMP SUM	_____.____
0654	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	90.000 EACH	_____.____	_____.____
0656	657.0322 Poles Type 5-Aluminum	34.000 EACH	_____.____	_____.____
0658	657.0615 Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	42.000 EACH	_____.____	_____.____
0660	657.0715 Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	53.000 EACH	_____.____	_____.____
0662	659.1115 Luminaires Utility LED A	42.000 EACH	_____.____	_____.____
0664	659.1120 Luminaires Utility LED B	53.000 EACH	_____.____	_____.____
0666	659.2230 Lighting Control Cabinets 240/480 30-Inch	4.000 EACH	_____.____	_____.____
0668	670.0100 Field System Integrator	LS	LUMP SUM	_____.____
0670	670.0200 ITS Documentation 01. 3080-01-40	LS	LUMP SUM	_____.____
0672	670.0200 ITS Documentation 02. 3080-01-76	LS	LUMP SUM	_____.____
0674	671.0112 Conduit HDPE 1-Duct 2-Inch	2,745.000 LF	_____.____	_____.____
0676	671.0212 Conduit HDPE Directional Bore 1-Duct 2-Inch	2,375.000 LF	_____.____	_____.____
0678	673.0105 Communication Vault Type 1	4.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0680	673.0200 Tracer Wire Marker Posts	4.000 EACH	_____.____	_____.____
0682	673.1225.S Install Pole Mounted Cabinet	1.000 EACH	_____.____	_____.____
0684	674.0300 Remove Cable	5,310.000 LF	_____.____	_____.____
0686	674.0400 Reinstall Cable	3,860.000 LF	_____.____	_____.____
0688	677.0150 Install Camera Pole 50-FT	1.000 EACH	_____.____	_____.____
0690	677.0200 Install Camera Assembly	1.000 EACH	_____.____	_____.____
0692	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	835.000 LF	_____.____	_____.____
0694	678.0024 Install Fiber Optic Cable Outdoor Plant 24-CT	1,330.000 LF	_____.____	_____.____
0696	678.0200 Fiber Optic Splice Enclosure	2.000 EACH	_____.____	_____.____
0698	678.0300 Fiber Optic Splice	104.000 EACH	_____.____	_____.____
0700	678.0400 Fiber Optic Termination	6.000 EACH	_____.____	_____.____
0702	678.0500 Communication System Testing 01. 3080-01-40	LS	LUMP SUM	_____.____
0704	678.0500 Communication System Testing 02. 3080-01-76	LS	LUMP SUM	_____.____
0706	678.0600 Install Ethernet Switches	1.000 EACH	_____.____	_____.____
0708	690.0150 Sawing Asphalt	4,072.000 LF	_____.____	_____.____
0710	690.0250 Sawing Concrete	13,057.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0712	715.0502 Incentive Strength Concrete Structures	7,440.000 DOL	1.00000	7,440.00
0714	715.0603 Incentive Strength Concrete Barrier	2,935.000 DOL	1.00000	2,935.00
0716	715.0720 Incentive Compressive Strength Concrete Pavement	8,644.000 DOL	1.00000	8,644.00
0718	740.0440 Incentive IRI Ride	8,711.000 DOL	1.00000	8,711.00
0720	ASP.1T0A On-the-Job Training Apprentice at $5.00/HR	2,400.000 HRS	5.00000	12,000.00
0722	ASP.1T0G On-the-Job Training Graduate at $5.00/HR	3,200.000 HRS	5.00000	16,000.00
0724	SPV.0005 Special 01. Pre-Planting Vegetation Treatment	2.800 ACRE	_____.____	_____.____
0726	SPV.0005 Special 02. Seed Bed Preparation	2.800 ACRE	_____.____	_____.____
0728	SPV.0045 Special 01. Temporary Portable Rumble Strip Arrays Non-flagging	48.000 DAY	_____.____	_____.____
0730	SPV.0060 Special 01. Construct LB-3 Base	58.000 EACH	_____.____	_____.____
0732	SPV.0060 Special 02. Poles 30-Foot 11 Gauge Simplex	58.000 EACH	_____.____	_____.____
0734	SPV.0060 Special 03. Ground Rod	1.000 EACH	_____.____	_____.____
0736	SPV.0060 Special 04. CIP Inlet 4	20.000 EACH	_____.____	_____.____
0738	SPV.0060 Special 05. CIP Inlet 2X3	43.000 EACH	_____.____	_____.____
0740	SPV.0060 Special 06. CIP Manhole 6X6	10.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0742	SPV.0060 Special 07. CIP Inlet SP	6.000 EACH	_____.____	_____.____
0744	SPV.0060 Special 08. Salvage and Replace Pipe Underdrain Endwall	63.000 EACH	_____.____	_____.____
0746	SPV.0060 Special 09. Removing Communication Vault	3.000 EACH	_____.____	_____.____
0752	SPV.0060 Special 12. Outlet Control Structure Pond C	1.000 EACH	_____.____	_____.____
0754	SPV.0060 Special 13. Orifice Plate Restrictor 6-Inch	1.000 EACH	_____.____	_____.____
0756	SPV.0060 Special 14. Outlet Control Structure Pond D	1.000 EACH	_____.____	_____.____
0758	SPV.0060 Special 15. Settlement Gauge	5.000 EACH	_____.____	_____.____
0760	SPV.0060 Special 16. Temporary Connection to Existing Storm Sewer	4.000 EACH	_____.____	_____.____
0762	SPV.0060 Special 17. Reconstructing Inlets Median 2 Grate	3.000 EACH	_____.____	_____.____
0764	SPV.0060 Special 19. Fence Gate Salvaged	2.000 EACH	_____.____	_____.____
0766	SPV.0060 Special 20. Native Seed Surveillance and Care Cycles	8.000 EACH	_____.____	_____.____
0768	SPV.0060 Special 21. Dewatering for Pond A	1.000 EACH	_____.____	_____.____
0770	SPV.0060 Special 22. Dewatering for Pond B	1.000 EACH	_____.____	_____.____
0772	SPV.0060 Special 23. Dewatering for Pond EX-S	1.000 EACH	_____.____	_____.____
0774	SPV.0060 Special 24. Dewatering for Pond EX-N	1.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0776	SPV.0060 Special 25. Dewatering for County Pond	1.000 EACH	_____.____	_____.____
0778	SPV.0060 Special 26. Project Dewatering, ID 3080-01-40	1.000 EACH	_____.____	_____.____
0780	SPV.0060 Special 27. Project Dewatering, ID 3080-01-76	1.000 EACH	_____.____	_____.____
0782	SPV.0060 Special 30. Install City Provided Sign	38.000 EACH	_____.____	_____.____
0784	SPV.0060 Special 31. Precast Sign Post Base	23.000 EACH	_____.____	_____.____
0786	SPV.0060 Special 32. Sign Post Base For Concrete Installation	4.000 EACH	_____.____	_____.____
0788	SPV.0060 Special 33. Temporary Lighting System Millpond Road Intersection	1.000 EACH	_____.____	_____.____
0790	SPV.0060 Special 34. Survey Project 3080-01-40	1.000 EACH	_____.____	_____.____
0792	SPV.0060 Special 35. Survey Project 3080-01-75	1.000 EACH	_____.____	_____.____
0794	SPV.0060 Special 36. Survey Project 3080-01-76	1.000 EACH	_____.____	_____.____
0796	SPV.0060 Special 37. Waste Water Control	1.000 EACH	_____.____	_____.____
0798	SPV.0060 Special 38. Reconstruct Bench and Flowlines	1.000 EACH	_____.____	_____.____
0800	SPV.0060 Special 39. Utility Line Opening (ULO)	20.000 EACH	_____.____	_____.____
0802	SPV.0060 Special 40. Construction Staking for Sanitary Sewer	1.000 EACH	_____.____	_____.____
0804	SPV.0060 Special 41. Sewer Electronic Markers	3.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0806	SPV.0060 Special 42. Sanitary Sewer Tap	2.000 EACH	_____.____	_____.____
0808	SPV.0060 Special 43. Sanitary Sewer Access Structure (4-FT Diameter)	21.000 EACH	_____.____	_____.____
0810	SPV.0060 Special 44. Sanitary Sewer Access Structure (5-FT Diameter)	1.000 EACH	_____.____	_____.____
0812	SPV.0060 Special 45. Sanitary Sewer Internal Chimney Seal	4.000 EACH	_____.____	_____.____
0814	SPV.0060 Special 46. External Sanitary Sewer Access Structure Joint Seal	20.000 EACH	_____.____	_____.____
0816	SPV.0060 Special 47. Adjust Sewer Access Structure Special	3.000 EACH	_____.____	_____.____
0818	SPV.0060 Special 48. Reconstruct MMSD Sanitary Sewer Structure	1.000 EACH	_____.____	_____.____
0820	SPV.0060 Special 49. Abandon Sanitary Sewer - Pipe Plug	6.000 EACH	_____.____	_____.____
0822	SPV.0060 Special 50. Construction Staking for Water Main	1.000 EACH	_____.____	_____.____
0824	SPV.0060 Special 51. Water Valve 6-Inch	17.000 EACH	_____.____	_____.____
0826	SPV.0060 Special 52. Water Valve 8-Inch	4.000 EACH	_____.____	_____.____
0828	SPV.0060 Special 53. Water Valve 12-Inch	22.000 EACH	_____.____	_____.____
0830	SPV.0060 Special 54. Hydrant	17.000 EACH	_____.____	_____.____
0832	SPV.0060 Special 55. Salvage and Relocate Hydrant and Valve	2.000 EACH	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0834	SPV.0060 Special 56. Remove Hydrant and Valve	3.000 EACH	_____.____	_____.____
0836	SPV.0060 Special 57. Adjust Water Valve Box Sections	9.000 EACH	_____.____	_____.____
0838	SPV.0060 Special 58. Connect to Existing Water System	3.000 EACH	_____.____	_____.____
0840	SPV.0060 Special 59. Abandon Water Valve	2.000 EACH	_____.____	_____.____
0842	SPV.0060 Special 60. Abandon Existing Water Main	3.000 EACH	_____.____	_____.____
0844	SPV.0060 Special 61. Cap Existing Water Main	1.000 EACH	_____.____	_____.____
0846	SPV.0060 Special 62. Water Utility Line Opening	2.000 EACH	_____.____	_____.____
0848	SPV.0060 Special 64. Water Main Insulation	27.000 EACH	_____.____	_____.____
0850	SPV.0060 Special 65. Clay Anti-Seep Collar	6.000 EACH	_____.____	_____.____
0852	SPV.0060 Special 66. Landmark Reference Monuments Special	1.000 EACH	_____.____	_____.____
0854	SPV.0085 Special 01. Seeding Native Pollinator Mix Upland	42.000 LB	_____.____	_____.____
0856	SPV.0085 Special 02. Seeding Native Pollinator Mix Swale	42.000 LB	_____.____	_____.____
0858	SPV.0090 Special 01. Compost Tubes	1,712.000 LF	_____.____	_____.____
0860	SPV.0090 Special 02. Sign Posts	282.000 LF	_____.____	_____.____
0862	SPV.0090 Special 03. Temporary Rumble Strip (Orange) in Advance of Lane Closure	1,836.000 LF	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0864	SPV.0090 Special 40. Sanitary Sewer Pipe SDR 26 8-Inch	388.000 LF	_____.____	_____.____
0866	SPV.0090 Special 41. Sanitary Sewer Pipe SDR 26 15-Inch	3,501.000 LF	_____.____	_____.____
0868	SPV.0090 Special 42. Select Fill for Sanitary Sewer	6,806.000 LF	_____.____	_____.____
0870	SPV.0090 Special 43. Sanitary Sewer Pipe PVC 10-Inch with Casing	234.000 LF	_____.____	_____.____
0872	SPV.0090 Special 44. Sanitary Sewer Pipe PVC 15-Inch with Casing	208.000 LF	_____.____	_____.____
0874	SPV.0090 Special 45. Utility Trench Patch Type III	605.000 LF	_____.____	_____.____
0876	SPV.0090 Special 46. Sanitary Sewer Pipe SDR 35 8-Inch	102.000 LF	_____.____	_____.____
0878	SPV.0090 Special 47. Sanitary Sewer Pipe SDR 35 15-Inch	2,373.000 LF	_____.____	_____.____
0880	SPV.0090 Special 50. Water Main 6-Inch	282.000 LF	_____.____	_____.____
0882	SPV.0090 Special 51. Water Main 8-Inch	429.000 LF	_____.____	_____.____
0884	SPV.0090 Special 52. Water Main 12-Inch	6,595.000 LF	_____.____	_____.____
0886	SPV.0090 Special 53. Casing Pipe 24-Inch	341.000 LF	_____.____	_____.____
0888	SPV.0165 Special 01. Wall Concrete Panel Mechanically Stabilized Earth R-13-370	2,041.000 SF	_____.____	_____.____
0890	SPV.0165 Special 02. Wall Concrete Panel Mechanically Stabilized Earth R-13-371	2,026.000 SF	_____.____	_____.____
0892	SPV.0195 Special 01. 3-Inch Clear Stone	4.500 TON	_____.____	_____.____

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0894	SPV.0200 Special 40. Construct Inside Drop 8-Inch	14.820 VF	_____.____	_____.____
0896	520.1012 Apron Endwalls for Culvert Pipe 12-Inch	1.000 EACH	_____.____	_____.____
0898	520.1018 Apron Endwalls for Culvert Pipe 18-Inch	14.000 EACH	_____.____	_____.____
0900	520.1024 Apron Endwalls for Culvert Pipe 24-Inch	4.000 EACH	_____.____	_____.____
0902	520.1030 Apron Endwalls for Culvert Pipe 30-Inch	2.000 EACH	_____.____	_____.____
0904	520.3318 Culvert Pipe Class III-A 18-Inch	174.000 LF	_____.____	_____.____
0906	520.3324 Culvert Pipe Class III-A 24-Inch	174.000 LF	_____.____	_____.____
0908	608.3012 Storm Sewer Pipe Class III-A 12-Inch	594.000 LF	_____.____	_____.____
0910	608.3018 Storm Sewer Pipe Class III-A 18-Inch	391.000 LF	_____.____	_____.____
0912	608.3024 Storm Sewer Pipe Class III-A 24-Inch	97.000 LF	_____.____	_____.____
0914	608.3030 Storm Sewer Pipe Class III-A 30-Inch	124.000 LF	_____.____	_____.____
0916	SPV.0060 Special 67. CIP Outlet Control Structure Pond A	1.000 EACH	_____.____	_____.____
0918	SPV.0060 Special 68. CIP Outlet Control Structure Pond B	1.000 EACH	_____.____	_____.____

Section: 0001 Total: _____.____

Total Bid: _____.____

Wisconsin Department of Transportation

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

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

July 05, 2022

NOTICE TO ALL CONTRACTORS:

Proposal #01: **3080-01-40**
Madison - Cambridge
CTH AB Overpass
USH 12
Dane County

3080-01-75, WISC 2022450
Madison - Cambridge
CTH AB Overpass
USH 12
Dane County

3080-01-76, WISC 2022451
Madison - Cambridge
CTH AB Interchange
USH 12
Dane County

Letting of July 12, 2022

This is Addendum No. 02, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress
33	Notice to Contractor – Future Free Flow Bypass Lane
35	Notice to Contractor – Optional Waste Site
134	Outlet Control Structure Pond C, Item SPV.0060.12; Outlet Control Structure Pond D, Item SPV.0060.14.

Added Special Provisions	
Article No.	Description
135	Marsh Excavation Near High-Pressure Gas Main, Item SPV.0090.04

Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0090.04	Excavation Near High-Pressure Gas Main	LF	0	900	900

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
32	Construction Detail-Marsh Excavation Special - FHR (added note for excavation near high-pressure gas main)
34	Construction Detail-Millpond Infield-Optional Waste Site (added limits of unstable materials)
492	Miscellaneous Quantities (added table for Excavation Near High-Pressure Gas Main)

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 02

3080-01-40/3080-01-75/3080-01-76

July 05, 2022

Special Provisions

3. Prosecution and Progress.

Delete paragraph one under section titled **Stage 1A***:*

Delete paragraph one under section titled **Stage 1B***:*

Delete paragraph one under section titled **Stage 1C***:*

Replace entire section titled **Winter Shutdown** *with the following:*

Winter Shutdown
Winter shutdown will commence with the completion of Stage 1 in the Fall of 2022. Do not resume work until March 13, 2023 unless approved by the engineer. Provide a start date in writing at least 14 days prior to the planned recommencement of work in 2023. Upon approval the engineer will issue the notice to proceed within 10 days of the approved start date.

Delete paragraph one under section titled **Stage 2A***:*

Delete paragraph one under section titled **Stage 2B***:*

Delete paragraph one under section titled **Stage 3A***:*

Delete paragraph one under section titled **Stage 3B***:*

Delete paragraph one under section titled **Stage 4A***:*

Delete paragraph one under section titled **Stage 4B***:*

Delete paragraph one under section titled **Stage 5***:*

33. Notice to Contractor – Future Free Flow Bypass Lane.

Replace entire article language with the following:

Right-of-way was purchased to allow for a future free flow bypass lane to be constructed between Ramp A and Millpond Road. Place only suitable embankment materials outside the 1:1 along the south side of Ramp A east of Station 690+00'A', the west side of CTH AB between Ramp A and Millpond Road, and along the north side of Millpond Road east of Station 390'MP'+00.

35. Notice to Contractor – Optional Waste Site.

Replace entire article language with the following:

Revise standard spec 207.2 (1) with the following:

For embankment, use engineer-approved material containing no logs, stumps, brush, or other perishable material. The contractor may not place excess unstable topsoil and other unstable soil outside of the allowable area as indicated on the plans.

134. Outlet Control Structure Pond C, Item SPV.0060.12; Outlet Control Structure Pond D, Item SPV.0060.14.

Replace entire section title **A Description** *with the following:*

A Description

Furnish and install an Outlet Control Structure Pond according to the pertinent provisions of standard spec 611, as shown on the plans, and as hereinafter provided. Furnish and install a trash rack on the outlet control structure and according to the pertinent provisions of standard spec 506 and 513, as shown on the plans and as hereinafter provided. Provide orifice holes and PVC pipe, PVC Plug, and fittings as shown on the plan. Provide concrete to fill the bottom of the structure as shown on the plans.

Replace the last paragraph under section titled **E Payment** *with the following:*

Payment is full compensation for providing and placing all materials, including all masonry, steel and pipe connections, and other fittings; furnishing and installing trash rack; for providing orifice hole, PVC Pipe, PVC Plug, and fittings; for furnishing, placing, protecting and curing concrete to fill the structure bottom; for furnishing all excavating, backfilling, disposing of surplus material, and cleaning out of structure.

135. Excavation Near High-Pressure Gas Main, Item SPV.0090.04.

A Description

This special provision describes requirements for excavation near high-pressure gas main and replacing with granular backfill grade 2 according to the plans, and as hereinafter provided.

B (Vacant)

C Construction

The contractor shall schedule a meeting with the engineer and the department's geotechnical engineer 10 business dates prior to beginning work near Flint Hills Resources, LLC (FHR) 8-inch high-pressure gas line along Ramp E. The contractor and the subcontractors for the grading work shall attend this mandatory

meeting.

Excavate near high pressure gas main and replace with Granular Backfill Grade 2. An FHR representative shall be on site when work is being done within 25 feet of the pipeline. FHR recommends that equipment operators have prior high-pressure gas pipeline experience. Per WI State One Call Law, no mechanical excavation within 18 inches of the high-pressure gas pipeline. FHR requires that the exposed high-pressure gas pipeline be supported at a minimum of 20-foot sections during excavation work, typically supported with wooden or earthen materials or other suitable means. Compact backfill around high-pressure pipeline using 1-foot lifts.

D Measurement

The department will measure Excavation Near High-Pressure Gas Main by the linear foot of gas main excavated and acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Excavation Near High-Pressure Gas Main	LF

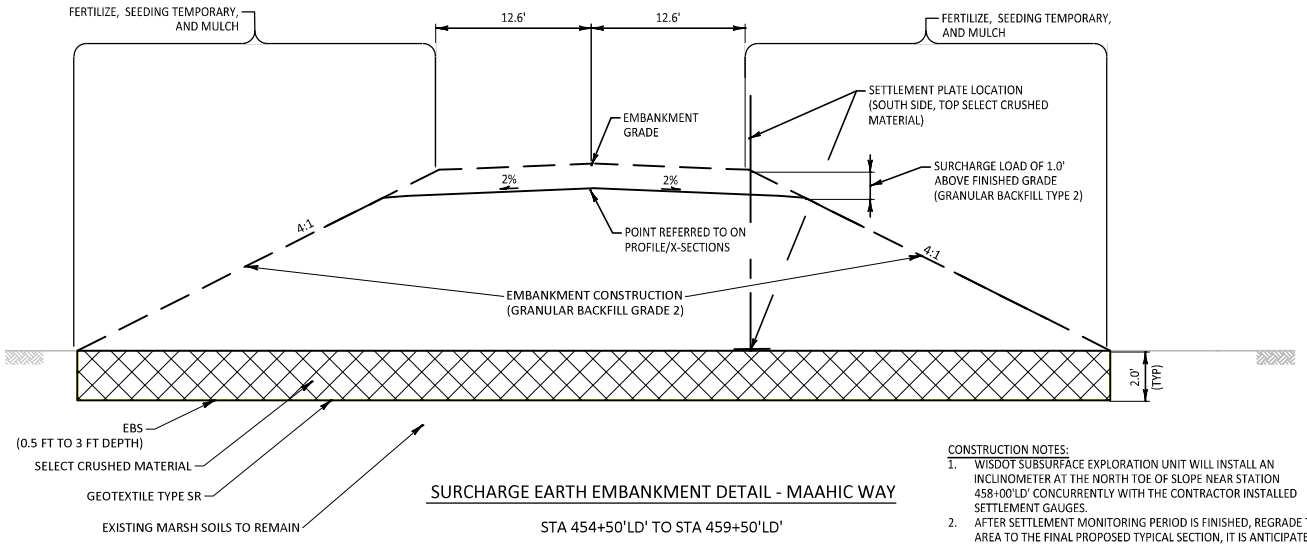
Payment is full compensation for coordination; and for exposing, supporting, and protecting the high-pressure gas main.

Work associated with Excavation Marsh and Granular Backfill Grade 2 will be paid for separately.

Schedule of Items
Attached, dated July 5, 2022, are the revised Schedule of Items Page 30.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised 32, 34 and 492.

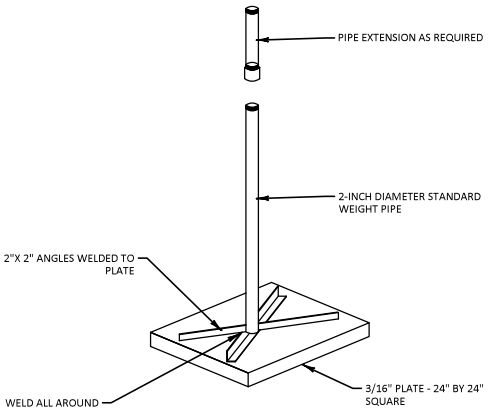
END OF ADDENDUM



SURCHARGE EARTH EMBANKMENT DETAIL - MAAHIC WAY

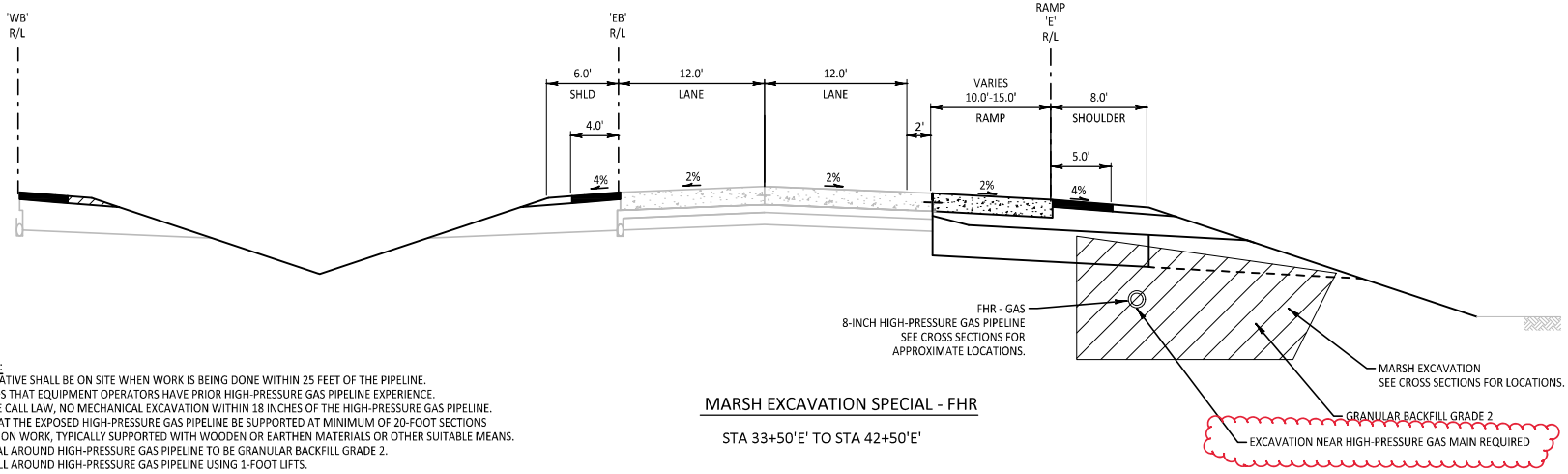
STA 454+50'LD' TO STA 459+50'LD'

CONSTRUCTION NOTES:
1. WISDOT SUBSURFACE EXPLORATION UNIT WILL INSTALL AN INCLINOMETER AT THE NORTH TOE OF SLOPE NEAR STATION 458+00'LD' CONCURRENTLY WITH THE CONTRACTOR INSTALLED SETTLEMENT GAUGES.
2. AFTER SETTLEMENT MONITORING PERIOD IS FINISHED, REGRADE THE AREA TO THE FINAL PROPOSED TYPICAL SECTION, IT IS ANTICIPATED ADDITIONAL FILL MATERIAL WILL BE REQUIRED



TYPICAL SETTLEMENT PLATE DETAIL

STA 455+00'LD', STA 456+00'LD', STA 457+00'LD', STA 458+00'LD', & STA 459+00'LD'



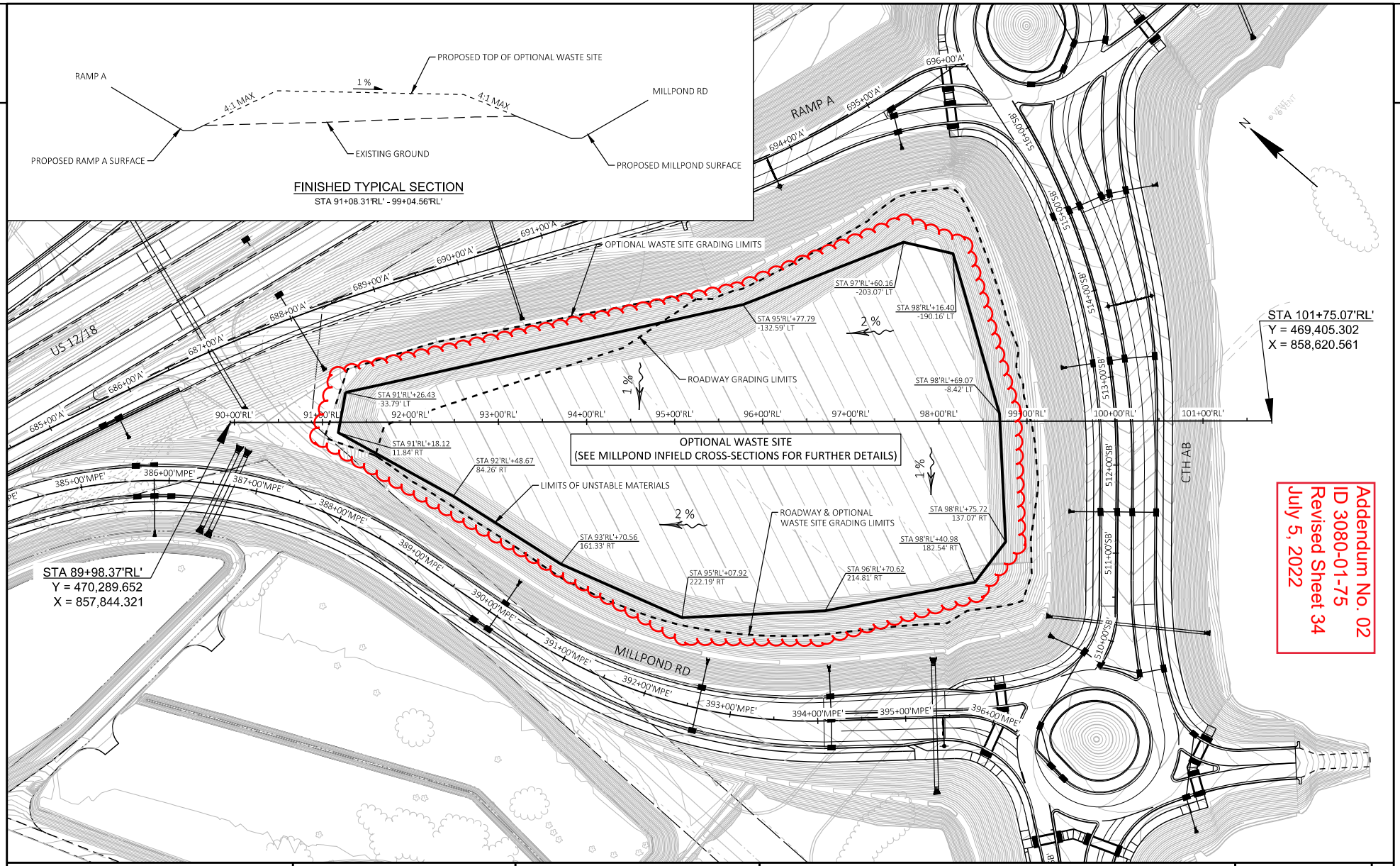
MARSH EXCAVATION SPECIAL - FHR

STA 33+50'E' TO STA 42+50'E'

CONSTRUCTION NOTES:
1. A FHR REPRESENTATIVE SHALL BE ON SITE WHEN WORK IS BEING DONE WITHIN 25 FEET OF THE PIPELINE.
2. FHR RECOMMENDS THAT EQUIPMENT OPERATORS HAVE PRIOR HIGH-PRESSURE GAS PIPELINE EXPERIENCE.
3. PER WI STATE ONE CALL LAW, NO MECHANICAL EXCAVATION WITHIN 18 INCHES OF THE HIGH-PRESSURE GAS PIPELINE.
4. FHR REQUIRES THAT THE EXPOSED HIGH-PRESSURE GAS PIPELINE BE SUPPORTED AT MINIMUM OF 20-FOOT SECTIONS DURING EXCAVATION WORK, TYPICALLY SUPPORTED WITH WOODEN OR EARTHEN MATERIALS OR OTHER SUITABLE MEANS.
5. BACKFILL MATERIAL AROUND HIGH-PRESSURE GAS PIPELINE TO BE GRANULAR BACKFILL GRADE 2.
6. COMPACT BACKFILL AROUND HIGH-PRESSURE GAS PIPELINE USING 1-FOOT LIFTS.

Addendum No. 02
ID 3080-01-76
Revised Sheet 32
July 5, 2022

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 32	E



Addendum No. 02
ID 3080-01-75
Revised Sheet 34
July 5, 2022

PROJECT NO: 3080-01-75	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAIL - MILLPOND INFIELD - OPTIONAL WASTE SITE	SHEET 34	E

FILE NAME : I:\47\470342 CTH AB INTERCHANGE\C3D\SHEETSPLAN\CTHAB-MILLPOND INFIELD_AREA.DWG
LAYOUT NAME - PlanView
PLOT DATE : 7/1/2022 2:31 PM
PLOT BY : BUTTERIS, BRADLEY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

Addendum No. 02
ID 3080-01-76
Revised Sheet 492
July 5, 2022

3

3

CLEARING AND GRUBBING

PROJECT NUMBER	CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0115 CLEARING ACRE	201.0205 GRUBBING STA	201.0215 GRUBBING ACRE
3080-01-76	0010	440+00'LD'	-	444+00'LD'	MAAHIC WAY	4	-	4	-
		446+00'LD'	-	460+00'LD'	MAAHIC WAY	14	-	14	-
		464+00'LD'	-	468+00'LD'	MAAHIC WAY	4	-	4	-
		474+00'LD'	-	486+00'LD'	MAAHIC WAY	12	-	12	-
		701+00'B'		711+00'B'	RAMP 'B'	10		10	
		807+00'C'	-	812+00'C'	RAMP 'C'	5	-	5	-
		532+00'LL'	-	536+00'LL'	LUDS LN	4	-	4	-
					POND 'A'	-	0.4	-	0.4
					POND 'B'	-	3.5	-	3.5
					TOTAL 0010	53	3.9	53	3.9
3080-01-76	0020	330+00'MP'	-	335+00'MP'	MILLPOND RD	5	-	5	-
		343+00'MP'	-	388+00'MP'	MILLPOND RD	45	-	45	-
		59+00'MRW'		64+00'MRW'	YHGC MAINT RD	5		5	
		370+00'MRE'	-	372+00'MRE'	YHGC MAINT RD	2	-	2	-
		377+00'MRE'	-	378+00'MRE'	YHGC MAINT RD	1	-	1	-
					TOTAL 0020	58	0	58	0
					PROJECT 3080-01-76 TOTAL	111	3.9	111	3.9

EXCAVATION NEAR HIGH-PRESSURE GAS MAIN

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	LOCATION	SPV.0090.04 EXCAVATION NEAR HIGH-PRESSURE GAS MAIN LF
3080 01 76	0010	4A	33+50'E'		42+50'E'	MILLPOND RD	900
						TOTAL 0010	900

REMOVING ASPHALTIC SURFACE

PROJECT NUMBER	CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	305.0500 SHAPING SHOULDERS STA	REMARKS
3080-01-76	0010	2	199+97'WB'	-	208+29'WB'	LT	1,514	-	-	COMMERCIAL DEVELOPMENT
			200+22'WB'	-	203+75'WB'	LT	4,710	-	-	COMMERCIAL DEVELOPMENT
					STAGE 2 SUBTOTALS		6,224	0	0	
3080-01-76	0010	3/3A	188+63'EB'	-	192+64'EB'	RT	-	267	4	EB OUTSIDE SHLD
			193+43'WB'	-	194+04'WB'	LT	-	41	1	WB OUTSIDE SHLD
			200+39'EB'	-	209+35'EB'	RT	-	597	9	EB OUTSIDE SHLD
			209+35'EB'	-	227+00'EB'	RT	-	1,177	18	EB OUTSIDE SHLD
			209+00'EB'	-	215+18'EB'	LT		216	6	EB MEDIAN SHLD
			224+00'EB'	-	227+00'EB'	LT		100	3	EB MEDIAN SHLD
			201+79'WB'	-	208+76'WB'	LT	-	465	8	WB OUTSIDE SHLD
					STAGE 2 SUBTOTALS		0	2,863	49	
3080 01 76	0010	4A	129+95'WB'	-	144+29'WB'	LT		941	14	WB OUTSIDE SHLD
			148+41'WB'	-	161+48'WB'	LT	-	839	13	WB OUTSIDE SHLD
			164+60'WB'	-	172+57'WB'	LT	-	543	8	WB OUTSIDE SHLD
					STAGE 4A SUBTOTALS		0	2,323	35	
3080-01-76	0010	4B	130+00'EB'	-	139+68'EB'	LT	-	326	10	EB MEDIAN SHLD
			146+13'EB'	-	159+80'EB'	LT	-	464	14	EB MEDIAN SHLD
			164+05'EB'	-	178+68'EB'	LT	-	490	15	EB MEDIAN SHLD
			191+59'EB'	-	198+82'EB'	LT	-	241	7	EB MEDIAN SHLD
			200+20'EB'	-	209+00'EB'	LT	-	293	9	EB MEDIAN SHLD
			151+77'WB'	-	162+34'WB'	RT	-	350	11	WB MEDIAN SHLD
			163+58'WB'	-	181+45'WB'	RT	-	597	18	WB MEDIAN SHLD
			194+36'WB'	-	198+97'WB'	RT	-	154	5	WB MEDIAN SHLD
			200+24'WB'	-	213+70'WB'	RT	-	446	13	WB MEDIAN SHLD
					STAGE 4B SUBTOTALS		0	3,361	102	
					TOTAL 0010		6,224	8,547	186	
3080-01-76	0020	1C	331+00'MP'	-	345+00'MP'	LT	3,145	-	-	SOUTH BYPASS PAVEMENTS
					STAGE 1C SUBTOTALS		3,145	0	0	
3080-01-76	0020	4B	340+00'MP'	-	348+20'MP'	LT	570	-	-	NORTH BYPASS PAVEMENTS
					STAGE 4B SUBTOTALS		570	0	0	
					TOTAL 0020		3,715	0	0	
					PROJECT 3080-01-76 TOTAL		9939	8547	8547	

PROJECT NO: 3080-01-76	HWY: USH 12	COUNTY: DANE	MISCELLANEOUS QUANTITIES	SHEET 492	E

Proposal ID: 20220712001 Project(s): 3080-01-40, 3080-01-75, 3080-01-76

Federal ID(s): N/A, WISC 2022450, WISC 2022451

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0894	SPV.0200 Special 40. Construct Inside Drop 8-Inch	14.820 VF	_____.____	_____.____
0896	520.1012 Apron Endwalls for Culvert Pipe 12-Inch	1.000 EACH	_____.____	_____.____
0898	520.1018 Apron Endwalls for Culvert Pipe 18-Inch	14.000 EACH	_____.____	_____.____
0900	520.1024 Apron Endwalls for Culvert Pipe 24-Inch	4.000 EACH	_____.____	_____.____
0902	520.1030 Apron Endwalls for Culvert Pipe 30-Inch	2.000 EACH	_____.____	_____.____
0904	520.3318 Culvert Pipe Class III-A 18-Inch	174.000 LF	_____.____	_____.____
0906	520.3324 Culvert Pipe Class III-A 24-Inch	174.000 LF	_____.____	_____.____
0908	608.3012 Storm Sewer Pipe Class III-A 12-Inch	594.000 LF	_____.____	_____.____
0910	608.3018 Storm Sewer Pipe Class III-A 18-Inch	391.000 LF	_____.____	_____.____
0912	608.3024 Storm Sewer Pipe Class III-A 24-Inch	97.000 LF	_____.____	_____.____
0914	608.3030 Storm Sewer Pipe Class III-A 30-Inch	124.000 LF	_____.____	_____.____
0916	SPV.0060 Special 67. CIP Outlet Control Structure Pond A	1.000 EACH	_____.____	_____.____
0918	SPV.0060 Special 68. CIP Outlet Control Structure Pond B	1.000 EACH	_____.____	_____.____
0920	SPV.0090 Special 04. Excavation Near High-Pressure Gas Main	900.000 LF	_____.____	_____.____

Section: 0001 Total: _____.____

Total Bid: _____.____

Wisconsin Department of Transportation

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

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

July 07, 2022

NOTICE TO ALL CONTRACTORS:

Proposal #01: **3080-01-40**
Madison - Cambridge
CTH AB Overpass
USH 12
Dane County

3080-01-75, WISC 2022450
Madison - Cambridge
CTH AB Overpass
USH 12
Dane County

3080-01-76, WISC 2022451
Madison - Cambridge
CTH AB Interchange
USH 12
Dane County

Letting of July 12, 2022

This is Addendum No. 03, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
61	Geotextile Type SR, Item 645.0135
129	Casing Pipe 24-Inch, Item SPV.0090.53

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 03

3080-01-40/3080-01-75/3080-01-76

July 07, 2022

Special Provisions

61. Geotextile Type SR, Item 645.0135.

Replace entire article language with the following:

Provide type SR geotextile fabric conforming to standard spec 645 and conforming to the following physical properties:

Test	Method	Value[1]
Minimum Tensile Strength	ASTM D 4632	205 lb/in
Maximum Elongation at Required Strength	ASTM D 6241	400 lb
Minimum Puncture Strength	ASTM D 4632	15%
Maximum Apparent Opening Size	ASTM D 4751	No. 30 sieve
Minimum Permittivity	ASTM D 4491	$0.12\ s^{-1}$

[1] All numerical values represent minimum/maximum average roll values. Average test results from all rolls in a lot must conform to the tabulated values.

[2] For quantities over 1,500 square yards, the engineer will obtain a sample of geotextile for testing from the job site. The engineer will obtain additional samples for each additional 5,000 square yards used in the work.

129. Casing Pipe 24-Inch, Item SPV.0090.53.

Replace entire article language with the following:

A Description

Install steel or reinforced concrete casing pipes for water mains.

B Materials

Refer to Article 702 of the City Standard Specifications and this section.

1. Steel Casing Pipe:
    a. Minimum yield strength of 35,000 psi.
    b. Minimum wall thickness:

Pipe Diameter (inches)	Wall Thickness (inches)
24	0.37500

2. Reinforced Concrete Pipe:
    a. Class V minimum.
3. Carrier Pipe:
    a. US Pipe TR-Flex, or equivalent.
4. Casing fill:
    a. Silica sand or pea gravel.
5. Casing Spacers– Manufactured:
    a. Manufactured casing spacers shall include stainless steel risers, nuts, bolts and bands, minimum 8-inch width, and polymer runners. Acceptable products include:
    b. BWM Company Stainless Steel Casing Spacers, model: BWM-SS 8-inch width.

c. CCI Pipeline Systems Stainless Steel Band Casing Spacer, model: CSS8.
d. Advance Products & Systems Stainless Steel Band Spacers, model: SSI, 8-inch width.

C Construction

Prior to installation of the pipe casing, perform required ULOs to verify the location of surrounding utilities and structures. Provide utility location information to the Engineer for review and approval of any adjustments in casing installation line or grade, in writing.

1. Install per the approved drawings to an accuracy of +/- 1% or +/- 2-feet, whichever is less.
2. Install the pipe casing by traditional open trench construction wherever applicable.
3. For untrenched installation of the pipe casing, install by dry auger boring and jacking methods.
4. Requirements:
    a. Borehole diameter to be essentially the same as the outside diameter of the casing.
    b. Auger is to remain inside the casing at all times.
    c. Pressure-grout the annular space around the casing if the auger is pushed ahead of the casing.
    d. Pressure grout voids as they develop.
    e. Pressure-grout any spaces greater than approximately 1-inch from the outside of the casing.
    f. Provide a steerable front section of casing to allow vertical grade adjustments.
    g. Provide a water level or other means to monitor the grade elevation of the auger casing.
    h. Water jacking for excavation of the soil is not permitted.
5. Provide a boring and jacking plan to the Engineer for review and approval prior to commencing work.
6. Connect adjacent lengths of steel pipe by continuous, circumferential, field butt-welding in accordance with AWWA C206.
7. Install carrier pipe on line and grade through the casing pipe.
8. Install approved casing spacers at the required distances per Standard Detail Drawing 7.21 – ‘Casing Spacers,’ and in accordance with the manufacturer’s installation requirements.
9. Fill the annular space between the casing and carrier pipe with specified sand or gravel material.
10. Take care to ensure that developed thrust pressures do not disturb existing utilities in or around the bore pit area.
11. Properly dispose of excess material off-site.

D Measurement

The department will measure Casing Pipe 24-Inch by the Linear Foot acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.53	Casing Pipe 24-Inch	LF

Payment is full compensation for furnishing and installing all materials, including casing pipe, spacers, tracer wire, granular bedding and backfill, and miscellaneous materials which may be necessary to perform the installation; for testing; and for all excavating and backfilling.

END OF ADDENDUM