



SUPERIOR

W I S C O N S I N

Living up to our name.

BID DOCUMENT AND CONTRACT VOLUME 2024

Hammond Avenue N 21st Street – Belknap Street

CITY OF SUPERIOR, WISCONSIN

Public Works Department

Todd Janigo, Director

Bid # 24-10-PW

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Additional Attachments:

Davis Bacon General Decision Number WI20240010 01-48-2024 Attachment A

Davis Bacon General Decision Number WI20240008 01-19-2024 Attachment B

Project Plan Set dated 01-16-2024

Special Provisions

Additional Provisions:

Project Signs

DBE Good Faith Efforts

City of Superior Survey Monument Record

1. ADVERTISEMENT TO BID

**CITY OF SUPERIOR
SEEKING BIDS FOR THE
Hammond Avenue
N 21st Street – Belknap Street**

1.1 Sealed Bids

Sealed bids will be received by the City of Superior, 1316 North 14th Street - 2nd Floor, Suite 200, Attention: Contract Analyst, Superior, WI 54880. Bids will be publicly opened and read aloud in the City offices as follows:

1.2 Bid Opening Date: **February 27, 2024**, Bid Opening Time: **3:00 p.m.**

Bid Project: The City of Superior is seeking bids from qualified contractors for the Hammond Avenue, N 21st Street to Belknap Street project. The work consists of a full reconstruction of the street, including sanitary sewer and storm sewer main replacement services.

Vj k'project is funded by the Wisconsin Clean Water State Revolving Fund and the Wisconsin Local Road Improvement Program (LRIP).

All bids must be prepared on the form provided and submitted in accordance with the Instructions to Bidder.

Specifications may be obtained through the internet at www.DemandStar.com. Bidding documents may be viewed at the City of Superior, Government Center, 1316 North 14th Street - 2nd Floor, Superior, Wisconsin (darwinj@ci.superior.wi.us) and at the Minnesota Builders Exchange (mbex.org), Builders Exchange of Wisconsin (bxwi.com), Northwest Regional Builders Exchange (nwr bx.com), and LaCrosse Builders Exchange (laxbx.com).

Bid security in the amount of five percent (5%) of the bid must accompany each bid in accordance with the Instructions to Bidders.

This project is being partially funded by the Clean Water State Revolving Fund which requires that all "iron and steel products" used for a project for the construction, alteration, maintenance, or repair of a public water system or treatment works are produced in the United States. "Iron and Steel products" means the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, conduit, reinforced precast concrete, and construction materials.

Contractors on the Project shall be required to comply with the minimum wages and labor standards, and conditions of employment to be observed, as determined by the Federal Davis-Bacon wage rates, under the Contract. Attention of bidders is particularly called to the requirements as to conditions of employment to be observed and minimum wage rates to be paid under contract. Equal Opportunity and Affirmative Action requirements apply to this Project (E.O. 11246).

Any contract(s) awarded under this Official Notice to Bidders must demonstrate positive

City of Superior, Wisconsin

efforts to utilize Disadvantaged Business Enterprises (DBEs). This procurement will be subject to regulations contained in NR 162.09(4).

The City of Superior reserves the right to reject any or all bids, to waive irregularities, or to accept such bids, as in the opinion of the City, will be in its best interests. No Bid shall be withdrawn for a period of 60 days after the scheduled opening of the bids without the consent of the City of Superior.

The City of Superior encourages DBEs, including MBEs and WBEs, to submit bid proposals.

Todd Janigo, Director of Public Works

Daily Telegram: Friday, January 26, 2024, and Friday, February 2, 2024
Milwaukee Observer

2. INSTRUCTIONS TO BIDDERS

- 2.1 Questions regarding this bid may be directed to the City of Superior as follows:
Project specifications & drawings: Jarrod Starren, PE, Short Elliott Hendrickson, Inc., jstarren@sehinc.com.
Bidding documents: Jane Darwin, Contract Analyst, darwinj@superiorwi.gov.
- 2.2 Method of Bidding: The only acceptable method of bidding a project with the City of Superior, Wisconsin, is described as follows and must be strictly complied with. The City of Superior reserves the right to determine the low Bidder on the basis of the Base Bid alone or the Base Bid plus any alternates or combinations of alternates, at the City's discretion. Bids shall be valid for 60 days.
- 2.3 Bid Packet Components: Each item listed must be included with the bid submission:
- a) Bidders must file a **PROPOSAL OR BID** on the form the City has prepared. (See BID PROPOSAL Section 3.) Bidders must also submit with bid **ASSURANCES** (See Section 3a), and **EQUAL OPPORTUNITY POLICY STATEMENT** (See Section 3b), **CERTIFICATION REGARDING DEBARMENT** (See Section 3c).
 - b) Bidders shall be required to submit a list of **SUBCONTRACTORS AND SUPPLIERS** with their proposal in accordance with Section 66.0901(7), Wisconsin Statutes, and subsequent amendments. Such list shall not be added to nor altered without the written consent of the City of Superior. (See **SUBCONTRACTORS AND SUPPLIERS LISTING** Section 4.)
 - c) Bidders shall be required to submit an **ADDENDA ACKNOWLEDGMENT** with their proposal. Such acknowledgment shall note acknowledgment of receipt of any and all addenda. It is the responsibility of the Bidder to obtain all addenda. If no addenda were issued, the bidder shall indicate and sign document. (See **ADDENDA ACKNOWLEDGMENT** Section 5.)
 - d) The bidder must file, at the time of the opening of the bids, either a **BID BOND or a certified check in the amount of at least five percent (5%)** of the total bid, conditioned that if the bidder is successful the bidder will, within the time allotted by the City, file a properly executed contract and performance bond as per Wisconsin Statutes 62.15(3). (See **BID BOND** Section 6.)
 - e) The bid proposal must have attached to it the **BIDDER'S PROOF OF RESPONSIBILITY** identifying the bidder's qualifications. (See **BIDDER'S PROOF OF RESPONSIBILITY** Section 7.). Prospective bidders are required to furnish a statement of financial ability, equipment and experience in the work prescribed in said public contract in accordance with the provisions of Section 66.0901(2) of the Wisconsin Statutes, at the time of the opening of the bids. The object of the questionnaire and the pre-qualification of bidders is to enable the City to have sufficient information regarding financial ability, equipment and experience in order to reduce the hazards involved in awarding contracts to parties not qualified to perform them and to select those contractors

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- qualified to properly complete the work proposed.
- f) The bid proposal must have attached to it the **AFFIDAVIT OF COMPLIANCE** swearing the compliance with the criteria set forth in the Responsible Contractor Criteria in the City Code of Ordinances, Chapter 2, Article XII, (See Section 7a), from the Contractor and all Sub-Contractors.
 - g) The bid proposal must have attached to it the **AFFIDAVIT OF ORGANIZATION AND AUTHORITY** identifying a corporation, partnership or sole trader. The affidavit must contain a sworn statement that the bidder has examined and carefully prepared the proposal from the plans and specifications and has checked the same in detail per Section 66.0901 (7), Wisconsin Statutes. (See AFFIDAVIT OF ORGANIZATION & AUTHORITY Section 8.)
 - h) The bid proposal must have attached to it the **DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE FORMS** identified in the Contract Packet for Disadvantaged Business Enterprise Compliance, EIF Form 8700-294 - DBE Good Faith Certification Form, and EIF Form 8700-294a – DBE Contacts Worksheet and EPA form 6100-4 – DBE Program Subcontractor Utilization Form. Contractors bidding on this project must follow, document, and maintain documentation of their Good Faith Efforts, as listed, to ensure that DBEs have the opportunity to participate in the project by increasing DBE awareness of procurement efforts and outreach. Bidders must make the following Good Faith Efforts for any work to be subcontracted: 1. Ensure DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. 2. Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. 3. Consider in the contracting process whether firms competing for large contracts can be subcontracted with DBEs. 4. Encourage contracting with a consortium of DBEs when a contract is too large for one DBE firm to handle individually. 5. Use the services and assistance of the Small Business Administration and the Minority Business Development Agency of the U.S. Department of Commerce. (See Disadvantaged Business Enterprise Requirements Section 00 74 02)
 - i) The bid proposal must have attached to it a **PROPOSED CONSTRUCTION SCHEDULE** in a format as prepared by the Contractor. This may include a list of milestone dates, a Gantt chart, or other means to adequately describe the project construction schedule. This shall include, at a minimum, anticipated construction start dates, milestone completion dates, and periods when work will be suspended. This schedule shall account for anticipated material delivery timelines. See completion date requirements in Section 12.11.
 - j) The bid proposal packet shall be placed in an envelope and shall be sealed. **ON THE ENVELOPE SHALL BE**, plainly written: the **date of the bid opening**, the **title of the project** and the **name of the bidder**. Such envelope shall be addressed and delivered to: The City of Superior, 1316 North 14th Street - 2nd Floor, Suite 200, Attention: Contract Analyst, Superior, Wisconsin before the time and date specified for opening bids as listed on the Advertisement to Bid.

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- k) Wisconsin's Public Records Law creates a statutory presumption in favor of complete access to public records and the City of Superior endeavors always to conduct its municipal affairs in strict compliance with Wisconsin Statutes §§ 19.31-19.39. Any entities or individuals who submit materials to the City of Superior in response to this request should avoid submittal of any proprietary information.

- 2.4 **Work Site and Contract Document Examination:** Bidders must satisfy themselves, by examination of the contract documents, the work site and the conditions and obstacles to be encountered in the field, and by such other means as may be necessary, as to the accuracy of the schedule of quantities of the work to be done and the intent of said contract documents. After the submission of the proposal, no complaint or claim that there was any misunderstanding as to the quantities, conditions or nature of the work will be entertained and no extra compensation shall be allowed by reason of any matter or thing concerning which such bidder might have informed himself prior to the bidding.

Upon award of bid, the Contractor must execute the required Performance and Payment Bond in the total amount of the bid. (see PERFORMANCE AND PAYMENT BOND Section 10.)

- 2.5 **Time of Performance:** When not otherwise specified, the bidder must state in the proposal, the least number of calendar days (counting weekends and holidays), after date to commence work given in the Notice to Proceed, in which bidder will start construction and the number of calendar days (counting weekends and holidays), after date to commence work given in the Notice to Proceed, in which bidder will fully complete the work as specified. The bidder should make allowance for all probable difficulties which may be encountered. In the event of failure to complete the work within the time stated or otherwise specified, liquidated damages will be assessed as provided in the specifications.
- 2.6 **Quantities:** The estimated quantities of the work are the result of careful calculations but are not to be considered as final. Such estimates will be used as a basis for determining the lowest bidder. After the contract is awarded, the quantity of work listed under any item, or all items, may be increased or decreased according to the specifications at the discretion of the City of Superior without in any way invalidating the bid price.
- 2.7 **Bid Prices:** Bidders must submit a bid price, in accordance with the specifications, for each item of the job or branch, in compliance with the bidding units specified for the quantities listed in the proposal. Bid prices must be written out in words and also entered in figures. In case of conflict, the written word prices will prevail. Totals must be shown based on unit cost and quantity. In case figures do not match, the figure resulting in the lower price shall be deemed the price intended and applicable.
- 2.8 **Inadequacies and Omissions:** The City of Superior will not be responsible for verbal

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information or statements made by representatives of the Engineering Department, or any other department for which work will be performed.

Bidders shall bring any inadequacies, omissions, or conflicts to the attention of the City of Superior before the due date for bids. Prompt written clarification will be immediately supplied to all bidders by Addenda before the due date for bids and each Addendum shall be acknowledged on the Addenda Acknowledgment form. Failure to request clarification of any inadequacy, omission or conflict will not relieve the Contractor of responsibility.

- 2.9 No Double Bidding: Two (2) or more proposals under different names will not be accepted from one firm or association.
- 2.10 Partial Bidding: Bidders must quote on all items appearing on the bid forms unless specific directions in the advertisement, on the bid form, or in the special specifications allow for partial bids. Failure to quote on all items, unless specifically exempted as set forth above, shall disqualify the bid. When quotations on all items are not required, bidders shall insert the words "no bid" where appropriate.
- 2.11 Right of Waiver or Rejection: The City reserves the right to reject any or all bids or waive any defects found in bids or proposals submitted.
- 2.12 Labor Standards: The Contractor agrees to comply with the requirements of the Secretary of Labor in accordance with the Davis-Bacon Act as amended, the provisions of Contract Work Hours and Safety Standards Act, the Copeland "Anti-Kickback" Act (40 U.S.C. Chapter 3, 276a-276a-5; 29 CFR Parts 1, 3, 5, 6, and 7; 40 USC 327 and 40 USC 276c, Chapter 3, Section 276c; 18 USC, Part 1, Chapter 41, Section 874; 29 CFR Part 3; 40 USC, Chapter 5, Sections 326-332; 29 CFR Part 4, 5, 6 and 8; 29 CFR Part 70 to 240), and all other applicable Federal, state and local laws and regulations pertaining to labor standards insofar as those acts apply to the performance of this contract. The Contractor shall maintain documentation which demonstrates compliance with hour and wage requirements of this part. Such documentation shall be made available to the City for a minimum period of three years after completion.
- 2.13 Wage Rates Applicable to this Project: See Attachment A and B – Davis Bacon General Decision Numbers WI20240010 and WI20240008.
- 2.14 Pre-Bid Conference in Person with Virtual Option: A pre-bid meeting is scheduled February 13, 2024, at 3:00 PM at 1316 N 14th St, Room 204, Superior, WI. Attendance at the pre-bid meeting is not mandatory but highly recommended. All questions should be directed in writing to the contacts listed in 2.1. Final questions are due by February 16, 2024. A final addendum will be issued by February 21, 2024.

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Virtual information:

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 288 832 695 179

Passcode: rzs2ki

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

[+1 872-242-8028,7459478#](#) United States, Chicago

Phone Conference ID: 745 947 8#

[Find a local number](#) | [Reset PIN](#)

- 2.15 **Contract Documents:** Upon award of the bid the contract documents will consist of the Advertisement to Bid, Instructions to Bidders, Bid Proposal, Subcontractors & Suppliers Listing, Addenda Acknowledgment, Certificate of Status of Debarment, Assurances Statement, Equal Opportunity Statement, Bid Bond, Bidder's Proof of Responsibility, Affidavit of Organization & Authority, Affidavit of Compliance(s), Contract, Performance and Payment Bond, Certificate of Insurance as required, General Specifications, Special Provision, Plan set dated 01-16-2024, and include all other herein bound attachments and modifications thereof incorporated in the documents as prepared by the City of Superior.
- 2.16 **Domestic Construction Materials:** In accordance with Section 215 of the Clean Water Act (33 U.S.C. 1295 et seq.) and implementing EPA regulations, Bidder agrees that the Contractor, Subcontractors, and suppliers in the performance of this Contract will give preference to domestic construction materials.
- 2.17 **American Iron and Steel:** Contractor has reviewed and understands the Use of American Iron and Steel requirements of the Clean Water State Revolving Fund. Contractor's bid reflects their best, good faith effort to identify domestic sources of iron and steel, where such American-made products were available to meet the contract times. All iron and steel products contained in the Contractor's bid will be produced in the United States in a manner that complies with the Use of American Iron and Steel requirements, unless a waiver is approved. Contractor will provide further verification, certification or assurance of compliance, or information necessary to support a waiver of the Use of American Iron and Steel requirements. Contractor understands that any failure to comply with the Use of American Iron and Steel requirement shall permit the Owner or the State to recover as damages against the Contractor any loss, expense, or cost (including without limitation to engineering or attorney's fees) incurred by the Owner or the State resulting from any such failure.

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3. BID PROPOSAL

**Hammond Avenue
N 21st Street – Belknap Street**

Date _____

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I/we, the undersigned, being familiar with your local conditions, having made a field inspection and investigation that I/we deemed necessary, having studied the plans and specifications for the work and being familiar with all the factors and other conditions affecting the work, are hereto attaching the following documents:

- 1) Assurances (see Section 3.a)
- 2) Equal Opportunity Policy Statement (see Section 3.b)
- 3) Certification Regarding Debarment (see Section 3.c)
- 4) Subcontractors & Suppliers List (see Section 4.)
- 5) Addenda Acknowledgment (see Section 5.)
- 6) Certified check or bid bond equal to five percent (5%) of the total amount bid. (Make check payable to: City of Superior, Wisconsin- see Section 6.)
- 7) Bidder's Proof of Responsibility (see Section 7.)
- 7a) Affidavit of Compliance from Contractor and All Sub-Contractors(see Section 7a.)
- 8) Affidavit of Organization & Authority (see Section 8.)

I/we, the undersigned, hereby propose to furnish all applicable labor, tools, materials, skills, equipment and all else necessary to execute the work, in accordance with the specifications and are hereby submitting the following bid:

- 1) In accordance with Section 215 of the Clean Water Act (33 U.S.C. 1295 et seq.) and implementing EPA regulations, Bidder agrees that the Contractor, Subcontractors, and suppliers in the performance of this Contract will give preference to domestic construction materials.
- 2) Contractor has reviewed and understands the Use of American Iron and Steel requirements of the Clean Water State Revolving Fund. Contractor's bid reflects their best, good faith effort to identify domestic sources of iron and steel, where such American-made products were available to meet the contract times. All iron and steel products contained in the Contractor's bid will be produced in the United States in a manner that complies with the Use of American Iron and Steel requirements, unless a waiver is approved. Contractor will provide further verification, certification or assurance of compliance, or information necessary to support a waiver of the Use of American Iron and Steel requirements.

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Contractor understands that any failure to comply with the Use of American Iron and Steel requirement shall permit the Owner or the State to recover as damages against the Contractor any loss, expense, or cost (including without limitation to engineering or attorney's fees) incurred by the Owner or the State resulting from any such failure.

- 3) In connection with the performance of Work under this Contract, Bidder agrees not to discriminate against any employee or applicant for employment because of age, race, religion, color, handicap, sex, physical condition or developmental disability as defined in s. 51.01(5), Wisconsin Statutes or national origin. 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. Bidder further agrees to take affirmative action to ensure equal employment opportunities for persons with disabilities. Bidder agrees to post in conspicuous places, available for employees and applicants for employment, notices setting forth the provisions of the nondiscrimination clause.

****SEE NEXT PAGE****

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Group	Item	Item Description	Quantity	Unit	Unit Price	Total	Group Description
0010	201.0120	Clearing	12	ID			Road Construction
0010	201.0220	Grubbing	72	ID			Road Construction
0010	204.0100	Removing Concrete Pavement	1694	SY			Road Construction
0010	204.0110	Removing Asphaltic Surface	253	SY			Road Construction
0010	204.0150	Removing Curb & Gutter	7000	LF			Road Construction
0010	204.0155	Removing Concrete Sidewalk	4950	SY			Road Construction
0010	205.0100	Excavation Common	20800	CY			Road Construction
0010	213.0100	Finishing Roadway (Hammond Avenue)	1	EACH			Road Construction
0010	305.0120	Base Aggregate Dense 1 1/4-Inch	10413	TON			Road Construction
0010	310.0110	Base Aggregate Open-Graded	150	TON			Road Construction
0010	312.0110	Select Crushed Material	14060	TON			Road Construction
0010	415.0090	Concrete Pavement 9-Inch	420	SY			Road Construction
0010	415.0100	Concrete Pavement 10-Inch	130	SY			Road Construction
0010	416.0610	Drilled Tie Bars	100	EACH			Road Construction
0010	416.0620	Drilled Dowel Bars	80	EACH			Road Construction
0010	455.0605	Tack Coat	1003	GAL			Road Construction
0010	460.2000	Incentive Density HMA Pavement	3000	DOL			Road Construction
0010	460.6224	HMA Pavement 4 MT 58-28 S	2574	TON			Road Construction
0010	460.6244	HMA Pavement 4 MT 58-34 S	2106	TON			Road Construction
0010	465.0120	Asphaltic Surface Driveways and Field Entrances	40	TON			Road Construction
0010	601.0409	Concrete Curb & Gutter 30-Inch Type A	180	LF			Road Construction
0010	601.0411	Concrete Curb & Gutter 30-Inch Type D	7452	LF			Road Construction
0010	601.0600	Concrete Curb Pedestrian	160	LF			Road Construction
0010	602.0405	Concrete Sidewalk 4-Inch	25012	SF			Road Construction
0010	602.0415	Concrete Sidewalk 6-Inch	23071	SF			Road Construction
0010	602.0420	Concrete Sidewalk 7-Inch	2241	SF			Road Construction
0010	602.0515	Curb Ramp Detectable Warning Field Natural Patina Natural Patina	1001	SF			Road Construction
0010	602.0810	Concrete Driveway 6-Inch	730	SY			Road Construction
0010	602.1500	Concrete Steps	19	SF			Road Construction
0010	612.0106	Pipe Underdrain 6-Inch	7632	LF			Road Construction
0010	618.0100	Maintenance And Repair of Haul Roads (Hammond Avenue)	1	EACH			Road Construction

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0010	619.1000	Mobilization	1	EACH		Road Construction
0010	620.0300	Concrete Median Sloped Nose	135	SF		Road Construction
0010	624.0100	Water	188	MGAL		Road Construction
0010	625.0100	Topsoil	7218	SY		Road Construction
0010	627.0200	Mulching	7218	SY		Road Construction
0010	628.1905	Mobilizations Erosion Control	4	EACH		Road Construction
0010	628.1910	Mobilizations Emergency Erosion Control	6	EACH		Road Construction
0010	628.7005	Inlet Protection Type A	76	EACH		Road Construction
0010	628.7015	Inlet Protection Type C	53	EACH		Road Construction
0010	628.7020	Inlet Protection Type D	23	EACH		Road Construction
0010	628.7504	Temporary Ditch Checks	50	LF		Road Construction
0010	628.7560	Tracking Pads	6	EACH		Road Construction
0010	629.0210	Fertilizer Type B	4.55	CWT		Road Construction
0010	630.0140	Seeding Mixture No. 40	130	LB		Road Construction
0010	630.0200	Seeding Temporary	195	LB		Road Construction
0010	630.0500	Seed Water	52	MGAL		Road Construction
0010	638.2102	Moving Signs Type II	68	EACH		Road Construction
0010	642.5001	Field Office Type B	1	EACH		Road Construction
0010	643.5000	Traffic Control	1	EACH		Road Construction
0010	645.0220	Geogrid Type SR	21065	SY		Road Construction
0010	646.2020	Marking Line Epoxy 6-Inch	7619	LF		Road Construction
0010	646.4020	Marking Line Epoxy 10-Inch	85	LF		Road Construction
0010	646.7020	Marking Diagonal Epoxy 6-Inch	301	LF		Road Construction
0010	646.7120	Marking Diagonal Epoxy 12-Inch	176	LF		Road Construction
0010	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	1385	LF		Road Construction
0010	646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-Inch	592	LF		Road Construction
0010	646.8220	Marking Island Nose Epoxy	5	EACH		Road Construction
0010	650.4500	Construction Staking Subgrade	4644	LF		Road Construction
0010	650.5000	Construction Staking Base	4644	LF		Road Construction
0010	650.5500	Construction Staking Curb Gutter and Curb & Gutter	12037	LF		Road Construction
0010	650.9000	Construction Staking Curb Ramps	68	EACH		Road Construction
0010	650.9500	Construction Staking Sidewalk (Hammond Avenue)	1	EACH		Road Construction
0010	650.9911	Construction Staking Supplemental Control (Hammond Avenue)	1	EACH		Road Construction
0010	650.9920	Construction Staking Slope Stakes	4644	LF		Road Construction

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0010	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	130	LF		Road Construction
0010	655.0260	Cable Traffic Signal 12-14 AWG	1864	LF		Road Construction
0010	655.0320	Cable Type UF 2-10 AWG Grounded	566	LF		Road Construction
0010	655.0515	Electrical Wire Traffic Signals 10 AWG	566	LF		Road Construction
0010	655.0900	Traffic Signal EVP Detector Cable	1117	LF		Road Construction
0010	690.0150	Sawing Asphalt	755	LF		Road Construction
0010	690.0250	Sawing Concrete	822	LF		Road Construction
0010	SPV.0060	05. Utility Line Opening	15	EACH		Road Construction
0010	SPV.0060	07. Locate and Replace Existing Centerline Monuments	25	EACH		Road Construction
0010	SPV.0060	08. Locate and Reset Property Corners	46	EACH		Road Construction
0010	SPV.0090	01. Concrete Curb & Gutter 6-inch Sloped 18-Inch Type J Modified	4245	LF		Road Construction
0010	SPV.0090	02. Cure and Seal Treatment, Concrete Curb and Gutter	12037	LF		Road Construction
0010	SPV.0090	03. Furnish and Install Video Detection Cable	1137	LF		Road Construction
0010	SPV.0165	01. Cure and Seal Treatment, Concrete Sidewalk	50664	SF		Road Construction
0010	SPV.0165	02. Cure and Seal Treatment, Concrete Median Sloped Nose	135	SF		Road Construction
0010	SPV.0165	03. Brush Pattern & Coloring of Concrete Sidewalk 6-Inch	340	SF		Road Construction
		TOTAL 0010 =			\$	
0020	204.0210	Removing Manholes	2	EACH		Storm Sewer
0020	204.0220	Removing Inlets	8	EACH		Storm Sewer
0020	204.0245	Removing Storm Sewer (01. 6-Inch)	45	LF		Storm Sewer
0020	204.0245	Removing Storm Sewer (02. 10-Inch)	30	LF		Storm Sewer
0020	204.0245	Removing Storm Sewer (03. 12-Inch)	90	LF		Storm Sewer
0020	204.0245	Removing Storm Sewer (04. 15-Inch)	125	LF		Storm Sewer
0020	204.0280	Sealing Pipes	2	EACH		Storm Sewer
0020	204.0291.S	Abandoning Sewer	26	CY		Storm Sewer
0020	520.8000	Concrete Collars for Pipe	3	EACH		Storm Sewer
0020	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	1047	LF		Storm Sewer

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0020	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	937	LF			Storm Sewer
0020	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	315	LF			Storm Sewer
0020	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	311	LF			Storm Sewer
0020	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	420	LF			Storm Sewer
0020	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	310	LF			Storm Sewer
0020	608.0442	Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	890	LF			Storm Sewer
0020	608.0448	Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	591	LF			Storm Sewer
0020	611.0420	Reconstructing Manholes	3	EACH			Storm Sewer
0020	611.0624	Inlet Covers Type H	46	EACH			Storm Sewer
0020	611.0639	Inlet Covers Type H-S	23	EACH			Storm Sewer
0020	611.2004	Manholes 4-FT Diameter	1	EACH			Storm Sewer
0020	611.3004	Inlets 4-FT Diameter	8	EACH			Storm Sewer
0020	611.3230	Inlets 2x3-FT	42	EACH			Storm Sewer
0020	611.8110	Adjusting Manhole Covers	3	EACH			Storm Sewer
0020	650.4000	Construction Staking Storm Sewer	71	EACH			Storm Sewer
0020	SPV.0060	01. Inlets 5-FT Diameter	3	EACH			Storm Sewer
0020	SPV.0060	02. Inlets 6-FT Diameter	8	EACH			Storm Sewer
0020	SPV.0060	03. Inlets 7-FT Diameter	5	EACH			Storm Sewer
0020	SPV.0060	04. Inlets 8-FT Diameter	4	EACH			Storm Sewer
0020	SPV.0060	09. Manhole Covers, Type J-Special	1	EACH			Storm Sewer
0020	SPV.0090	04. Sewer Field Quality Control - Televising	4821	LF			Storm Sewer
		TOTAL 0020 =				\$	
0030	SPV.0060	30. Point Repair By Chemical Grout	10	EACH			Sanitary Sewer
0030	SPV.0060	31. Cover Interceptor Manhole Opening	1	EACH			Sanitary Sewer
0030	SPV.0060	32. Interceptor Manhole Lining	6	EACH			Sanitary Sewer
0030	SPV.0090	30. SAPL 46"x60" Interceptor	280	LF			Sanitary Sewer
0030	SPV.0090	31. SAPL 47"x66" Interceptor	521	LF			Sanitary Sewer
0030	SPV.0090	32. Cleaning and Televising Sewer Interceptor	801	LF			Sanitary Sewer
0030	SPV.0105	30. Temporary Bypass System	1	LS			Sanitary Sewer

City of Superior, Wisconsin

		TOTAL 0030 =				\$	
0040	612.0902.S	Insulation Board Polystyrene (4-inch)	486	SY			Non-Participating (SWL&P)
0040	SPV.0060	40. Remove Water Valve and Box	2	EACH			Non-Participating (SWL&P)
0040	SPV.0060	41. Remove Curb Stop and Box	87	EACH			Non-Participating (SWL&P)
0040	SPV.0060	42. Remove Hydrant	6	EACH			Non-Participating (SWL&P)
0040	SPV.0060	43. Remove Valve Vault	5	EACH			Non-Participating (SWL&P)
0040	SPV.0060	44. Gate Valve and Box, 8-inch	9	EACH			Non-Participating (SWL&P)
0040	SPV.0060	45. Hydrant Assembly	7	EACH			Non-Participating (SWL&P)
0040	SPV.0060	46. Connect to existing watermain	9	EACH			Non-Participating (SWL&P)
0040	SPV.0060	47. Connect to existing water service	81	EACH			Non-Participating (SWL&P)
0040	SPV.0060	48. Tapping Tee with electrofusion saddle, 1-inch	81	EACH			Non-Participating (SWL&P)
0040	SPV.0060	49. Curb Stop and Box, 1-inch	80	EACH			Non-Participating (SWL&P)
0040	SPV.0060	50. Curb Stop and Box, 2-inch	1	EACH			Non-Participating (SWL&P)
0040	SPV.0090	40. Remove or Abandon watermain	2565	LF			Non-Participating (SWL&P)
0040	SPV.0090	41. Remove Steel Gas Main	2894	LF			Non-Participating (SWL&P)
0040	SPV.0090	42. Watermain and Fittings, 8-inch HDPE DR-11	3073	LF			Non-Participating (SWL&P)
0040	SPV.0090	43. Watermain and Fittings, 12-inch HDPE DR-11	100	LF			Non-Participating (SWL&P)
0040	SPV.0090	44. Water Service, 1-inch HDPE	3658	LF			Non-Participating (SWL&P)
0040	SPV.0090	45. Water Service, 2-inch HDPE	23	LF			Non-Participating (SWL&P)
0040	SPV.0105	40. Temporary Water Service	1	LS			Non-Participating (SWL&P)
		TOTAL 0040 =				\$	
0050	625.0100	Topsoil	1940	SY			Landscaping
0050	627.0200	Mulching	1940	SY			Landscaping
0050	629.0210	Fertilizer Type B	2.32	CWT			Landscaping
0050	632.0101	Trees (species, root, size), 01. American Hornbeam, 2.5" Cal	3	EACH			Landscaping
0050	632.0101	Trees (species, root, size), 02. Kentucky Coffeetree, 2.5" Cal	18	EACH			Landscaping
0050	632.0101	Trees (species, root, size), 03. Marilee Crabapple, 2.5" Cal	14	EACH			Landscaping
0050	632.0101	Trees (species, root, size), 04. American Hophornbeam, 2.5" Cal	14	EACH			Landscaping
0050	632.0101	Trees (species, root, size), 05. Regal Prince Oak, 2.5"	5	EACH			Landscaping

City of Superior, Wisconsin

		Cal				
0050	632.0101	Trees (species, root, size), 06. Boulevard American Linden, 2.5" Cal	8	EACH		Landscaping
0050	632.0101	Trees (species, root, size), 07. Accolade Elm, 2.5" Cal	19	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 01. New Jersey Tea, 2 Gal	27	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 02. Carolina Rose, 2 Gal	22	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 03. Nodding Onion, 1 Gal	418	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 04. Leadplant, 1 Gal	28	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 05. Eastern Columbine, 1 Gal	201	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 06. Butterfly Milkweed, 1 Gal	154	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 07. Longbract Wild Indigo, 1 Gal	75	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 08. Harebell, 1 Gal	480	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 09. Double Sunburst Tickseed, 1 Gal	436	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 10. Spotted Geranium, 1 Gal	88	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 11. Rough Blazing Star, 1 Gal	172	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 12. Wild Lupine, 1 Gal	264	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 13. Stiff Goldenrod, 1 Gal	66	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 14. Smooth Aster, 1 Gal	43	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 15. Golden Alexander, 1 Gal	112	EACH		Landscaping
0050	632.0201	Shrubs (species, root, size), 16. Little Bluestem, 1 Gal	160	EACH		Landscaping
0050	632.9101	Landscape Planting Surveillance and Care Cycles	20	EACH		Landscaping
0050	SPV.0060	06. Tree Planting, Preservation, and Protection	47	EACH		Landscaping
0050	SPV.0120	01. Bee Lawn Seed Water	15	MGAL		Landscaping
0050	SPV.0180	01. Bee Lawn	1340	SY		Landscaping
		TOTAL 0050 =			\$	
		TOTAL PROJECT =			\$	

City of Superior, Wisconsin

Total project in written words:

Estimate amount of calendar days to complete project upon Contractor's receipt of Notice to Proceed (time to include all weekends and holidays)_____

Date able to begin the project_____

Completion date_____

SIGNATURE_____

PRINT NAME_____

TITLE_____

COMPANY_____

ADDRESS_____

PHONE_____

E-MAIL ADDRESS_____

3a. ASSURANCES

Bidder MUST submit this completed document with the bid proposal.

- OMB Approval No. 0348-0042

ASSURANCES - CONSTRUCTION PROGRAMS Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal interest in the title of real property in accordance with awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure nondiscrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§16811683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of

City of Superior, Wisconsin

1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327333) regarding labor standards for federally-assisted construction subagreements.

14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in

Signature of Authorized Certifying Official: _____

Title: _____

Applicant Organization: _____

Date submitted: _____

the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.

15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).

18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

City of Superior, Wisconsin

3b. EQUAL OPPORTUNITY POLICY STATEMENT

Bidder MUST submit this completed document with the bid proposal.

Effective Date: _____

To: City of Superior
Public Works Department
1316 North 14th Street
Superior, WI 54880

Subject: EQUAL EMPLOYMENT OPPORTUNITY

A. PURPOSE

To provide equal employment opportunity for all employees and applicants for employment with _____ Inc., and to outline the procedures that will be followed to ensure accomplishment of the objectives of this policy.

B. EQUALITY OF OPPORTUNITY

All decisions with respect to employment matters and other phases of employer employee relationship will be in keeping with this policy and in accordance with Executive Order 11246 and 11375. The _____, Inc., will:

1. Recruit, hire and promote individuals in all job classifications without regard to race, color, religion, sex, age, handicap, or national origin, except where sex or age is a bona fide occupational qualification.
2. Ensure that promotions are in accord with principles of equal employment opportunity by imposing only legitimate job-related requirements for promotional opportunities.
3. Ensure that all other personal actions such as rates of pay or other forms of compensation, benefits, transfers, layoffs, returns from layoff, demotions, terminations, selection for training (including apprenticeship), social and recreational programs, use of company facilities, and the like will be administered without regard to race, color, religion, sex, age, handicap, or national origin, except where sex or age is a bona fide occupational qualification.

C. GENERAL RESPONSIBILITIES

The President and the Corporate EEO officer will be responsible for the coordination, administration, and implementation of the provisions of this policy.

D. POLICY GUIDELINES

1. The program of Affirmative Action is based on the analysis of all job categories at all Division/Subsidiaries to determine if there is underutilization of minority and female

City of Superior, Wisconsin

employees. As a result, specific goals, timetables, and action commitments are developed to correct identifiable deficiencies. The analysis of periodic internal Affirmative Action reports is designed to monitor progress toward established goals and correct deviations for those goals in a timely manner.

2. Bound by the terms of the Vietnam Era Veterans Readjustment Assistance Act, _____ Inc., is committed to take affirmative action to employ, advance in employment or otherwise treat qualified disabled veterans and veterans of the Vietnam era without discrimination based upon their disability or veteran's status in all employment practices.
3. Bound by the terms of Section 503 of the Rehabilitation Act of 1973, _____ Inc., is committed to take affirmative action to employ and advance in employment qualified physically and mentally handicapped individuals in all employment practices.
4. All solicitations or advertisements for employees placed by or on behalf of authorized representatives of the Corporation will state expressly that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, handicap or national origin, or alternative statements such as the phrase "an equal opportunity employer" as may be authorized by Executive Order 11246 as amended by 11375. All such solicitations or advertisements will be subject to approval by the President or designate.
5. Applicants for employment with the Corporation will be judged solely in accordance with the job specifications concerned, the applicant's work history, and any other commonly accepted indices of qualification as may be deemed necessary for the position in question.
6. Notices and posters relating to equal employment opportunity will be conspicuously posted on bulletin boards, and information concerning such equal employment opportunity as may be prescribed by national policy will be made readily available to all employees or applicants for employment.

SIGNATURE: _____

TITLE: _____

DATE: _____

3c. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions

This certification is required by the regulations implement Executive Order 12549, Debarment and Suspension, 7 CFR Part 3017, Section 3017.510, Participant's responsibilities. The regulations were published as Part IV of the January 30, 1989 Federal Register (pages 4722-4733). Copies of the regulations may be obtained by contacting the agency with which this transaction originated.

1. The Contractor certifies that, by submission of this proposal, that neither it nor its principals, or SubContractors:
 - a. Is presently debarred, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
 - b. Have not within a three-year period preceding this date been convicted of or had a civil judgement rendered against you 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 offenses enumerated in paragraph 1(b) of this certification; and
 - d. Have not within a three-year period preceding this date had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the Contractor is unable to certify any of the statements in this certification, such Contractor shall attach an explanation to this proposal.

Signed: _____
Print Name & Title: _____
Name of Organization: _____
Date: _____

City of Superior, Wisconsin

4. SUBCONTRACTORS AND SUPPLIERS LISTING - Must be submitted with Bid.

**Hammond Avenue
N 21st Street – Belknap Street**

4.1 The undersigned agrees to employ the following listed **subcontractors** for the following enumerated classes of work and not to alter or add to such list without the written consent of the City of Superior, WI as per Wisconsin Statutes 66.0901 (7). (see CONTRACT CHANGE ORDER form attached). Use separate sheet as necessary.

	<u>SUBCONTRACTOR</u>	<u>CLASS OF WORK</u>
1)	_____	_____
2)	_____	_____
3)	_____	_____
4)	_____	_____
5)	_____	_____

4.2 Following is a list of **suppliers** to be used on the above listed project. (Use separate sheet as necessary.)

	<u>SUPPLIER</u>	<u>TYPE OF SUPPLY</u>
1)	_____	_____
2)	_____	_____
3)	_____	_____
4)	_____	_____
5)	_____	_____

Number of years of experience or additional details of subcontractors, supplier or product may be requested for projects as deemed necessary by the City.

Submitted by: COMPANY _____
ADDRESS _____
COMPANY REPRESENTATIVE _____

City of Superior, Wisconsin

5. ADDENDA ACKNOWLEDGMENT (Must be submitted with Bid)

**Hammond Avenue
N 21st Street – Belknap Street**

I/we hereby acknowledge receipt of the following addenda(s):

Addendum No. _____ Dated _____
Addendum No. _____ Dated _____
Addendum No. _____ Dated _____
Addendum No. _____ Dated _____

I/we further certify that no agreement has been entered into to prevent competition for said work and that I/we carefully examined the site where the work is to take place, and the plans, specifications, form of contract, bond and all other contract documents.

I/we further agree to enter into the contract, as provided in the contract documents, under all the terms, conditions and requirements of those documents.

* If no addenda were issued, the bidder shall so indicate and sign this document.

Company

Representative Signature

Date

City of Superior, Wisconsin

6. BID BOND - (Sample) A 5% bid security must be submitted with Bid AIA Document A310™ -2010 Bid Bond is the preferred document.

KNOW ALL MEN BY THESE PRESENTS that, _____
of _____ as principal, and _____,
a corporation organized and existing under the laws and authorized to transact business in the
State of _____ (herein called "surety") as surety are held and firmly bound
unto the City of Superior, Wisconsin, a municipal corporation of the State of Wisconsin, in the
penal sum of _____ dollars (five percent of bid), good and
lawful money of the United States of America, to be paid to the City of Superior, Wisconsin, its
duly authorized attorneys, agents, officers, successors and assigns for which payment, well and
truly be made, we bind ourselves, our heirs, administrators, executors, successors and assigns,
jointly and severally firmly by these presents.

WHEREAS, the above bounden principal has entered into a proposal for a certain written
contract with the City of Superior, Wisconsin, dated on this ____ day of _____,
20____, for the performance of the following work:

NOW THEREFORE, the condition of the above obligation is such that if the above
principal shall file and properly execute the proper contract and performance bond within the
time limited by the City, which shall provide for the doing of such work upon the terms and
conditions of the plans and specifications of the bid, then this obligation is to be void, otherwise
be made and remain in full force and effect.

Company

President

Secretary

WITNESS:

Signed and Sealed in the Presence of:

7. BIDDER'S PROOF OF RESPONSIBILITY (Must be submitted with Bid)

Wisconsin Statutes Section 66.0901 (2) requires anyone submitting a bid to complete a sworn statement consisting of information relating to the financial ability, equipment, experience in the work prescribed in the public contract, and other matters that the municipality requires. The City of Superior shall properly evaluate the statement and shall find the maker of the statement either qualified or unqualified.

If the City is not satisfied with the sufficiency of the answers to the questionnaire and financial statement, it may reject the bid or disregard the same or require additional information.

The contents shall be confidential and may not be disclosed except upon the written order of the person furnishing the statement, for necessary use by the public body in qualifying the person, or in cases of actions against, or by, the person or municipality.

STATEMENT OF BIDDER QUALIFICATIONS

1. Name of bidder: _____
2. Bidder's address: _____
3. When organized: _____
4. Where incorporated: _____
5. How many years have you been engaged in the contracting business under the present firm name: _____
6. Have you ever failed to complete any work awarded to you? No _____ Yes _____
(If yes, please explain)
7. Have you ever defaulted on a contract? No _____ Yes _____
(If yes, please explain.)
8. Have you ever been sued for services you provided? No _____ Yes _____
(If yes, please explain.)
9. In the past three years, has your organization had at least a 25% interest, or has another corporation, partnership or other business entity operating in the construction industry controlled it? No _____ Yes _____
(If yes, please attach a statement explaining the nature of the relationship.)
10. Has your or the controlling company ever been charged with or convicted of a violation of any wage schedule? (Section 66.0903 (12) d Wis Stats) No _____ Yes _____
(If yes, please provide details, date, claimant, particulars of each instance.)
11. Has the applicant, any of its owners, a subsidiary or corporate parent, or any officer or director thereof; been convicted in the last three years of violating Section 133.01, Wisconsin Statutes (Unlawful Contracts; Conspiracies)? No _____ Yes _____
(If yes, please provide details, date claimant, particulars of each incident, etc.)
12. Does your firm have a substance abuse policy that complies with Section 103.503 Wisconsin Statutes? No _____ Yes _____
13. Does your firm possess all valid licenses, registrations and certifications required by federal, state, county or city law necessary for the work it seeks to perform?
No _____ Yes _____
14. Has your organization had any type of business, contracting or trade license, certification or registration revoked or suspended in the last three years?
No _____ Yes _____ (If yes, please explain.)

City of Superior, Wisconsin

15. Does your organization meet all bonding requirements as required by applicable law?
No _____ Yes _____
16. Attach a list of the largest contracts completed by your firm, including kind of work and approximate cost.
17. Attach a statement of background and experience of the principal members of your personnel, including your officers.
18. Name, address and telephone numbers of a minimum of two (2) references of others whom you have performed similar work/services to in the past five (5) years.
19. Credit references - attach as applicable
20. Financial statement (net worth in excess of): \$ _____
21. Additional information may be submitted if desired.

Company Name _____

I, the below signed, attest all answers to the foregoing questions and all statements contained are true and correct.

Authorized Signature _____

PRINT signature name and title _____

Subscribed and sworn to before me,
this _____ day of _____, 2024

Notary Public

County of _____

My Commission Expires _____

City of Superior, Wisconsin

ORDINANCE #O20-4178

ORDINANCE INTRODUCED BY MAYOR JIM PAINE REPEALING SECTION 2, ARTICLE XII PUBLIC WORKS PROJECTS AND RECREATING SECTION 2, ARTICLE XII RESPONSIBLE CONTRACTOR CRITERIA

The Common Council of the City of Superior, Wisconsin, does ordain as follows:

SECTION 1. Chapter 2, Article XII, Public Works Projects of the City Code of Ordinances is hereby repealed and recreated as follows:

ARTICLE XII. RESPONSIBLE CONTRACTOR CRITERIA

Section 2-468. Purpose. Pursuant to Wis. Stats. § 66.0901, whenever the city lets public work by contract, the contract must be awarded to the lowest qualified responsible contractor. What constitutes a qualified responsible contractor is a determination that requires the exercise of discretion by the city and its departments, officials or employees under reasonably consistent responsible contractor criteria when exercising its discretion.

Section 2 -469. Definitions. In this section, the following definitions shall apply.

“Contractor” means a person, corporation, partnership or any other business entity that performs work on a public works contract as a general contractor, prime contractor or subcontractor at any tier.

“Apprenticeship program” means an apprenticeship program that is currently approved by the U.S. Department of Labor or a state apprenticeship agency and has graduated apprentices to journeyman status for three years.

“Public works contract” means a contract for the construction, alteration, execution, repair, remodeling or improvement of a public work or building, where the contract is in excess of \$25,000 and is required to be bid pursuant to Wis. Stats. § 59.52(29).

“Qualified contractor (Bidder)” means a person, corporation, partnership or any other business entity that meets the requirements specified in this ordinance as well as the criteria specified in Wis. Stats. 16.855 (9m) (b) (1) (a & b)

Section 2-470 Responsible Contractor Criteria. In order to be a qualified responsible contractor for purposes of being awarded a public works contract, the contractor must meet the following criteria.

- a) The contractor maintains a permanent place of business.
- b) The contractor is authorized to do business in the State of Wisconsin.

City of Superior, Wisconsin

- c) The contractor, or agent, partner, employee or officer of the contractor, is not debarred, suspended, proposed for debarment or declared ineligible from contracting with any unit of federal, state or local government.
- d) The contractor is in compliance with provisions of Section 2000e of Chapter 21, Title 42 of the United States Code and Federal Executive Order No. 11246 as amended by Executive Order No. 11375 (known as the Equal Opportunity Employer provisions).
- e) The contractor has general liability, workers' compensation, automobile insurance and unemployment insurance.
- f) The contractor has complied with all provisions of any prevailing wage laws and federal Davis-Bacon related Acts, and the rules and regulations therein, for projects undertaken by the contractor that are covered by these laws, for the past five (5) years.
- g) The contractor participates in an apprenticeship program as referred in section 2-46 9, if the contractor employs more than two (2) employees.
- h) The contractor has a written substance abuse prevention program meeting the requirements of Wis. Stat. §103.503.
- i) The employees who will perform work on the project are properly classified as employees or independent contractors under all applicable state and federal laws.
- j) The contractor has not been the subject to any investigation, order or judgement regarding the construction industry from a state or federal agency or court concerning an employment practice, including but not limited to, classification of employees, unemployment insurance, discrimination or payroll fraud. If the contractor has been the subject of any of the aforementioned, the contractor must provide copies of the investigation, order or judgement and may be disqualified.
- k) The contractor's employees who will perform work on the project are:
 - 1) Covered under a current workers' compensation policy; and properly classified under such policy.
 - 2) Covered under a current health insurance policy as required by federal or state law.
- l) The contractor possesses all applicable professional and trade licenses required for performing the public works.
- m) The contractor has adequate financial resources to complete the public works contract, as well as all other work the bidder is presently under contract to complete.
- n) The contractor is bondable for the terms of the proposed public works contract.

City of Superior, Wisconsin

- o) The contractor has a record of meeting the criteria which will be considered in determining satisfactory completion of projects and may include, but are not limited to:
 - 1) Completion of contracts in accordance with drawings and specifications;
 - 2) Diligent execution of the work and completed contracts according to the established time schedules unless extensions are granted by the owner; and
 - 3) Fulfilled guarantee requirements of the contract documents.
- p) The contractor has, and diligently maintains, a written safety program.

Section 2-471.No Restriction on Discretion. If information other than what was disclosed by the contractor in section 2-470 is discovered by the city or the department, official or employee responsible for awarding the public works contract, and such information calls into question the contractor's abilities or competence to faithfully and responsibly comply with the terms of a public works contract, that information shall be considered in determining whether the contractor is a qualified responsible contractor.

Section 2-472. Affidavit of Compliance.

In the event a construction management company is to administer the said contract with general contractors, prime contractors or subcontractors of any tier, the construction management firm shall ensure all the rules and regulations contained in this Responsible Contractors Ordinance are followed by all contractors of any tier.

The general, prime contractor, or sub-contractor of any tier bidding on a public works project must include in its sealed bid:

- a) **Its own affidavit swearing compliance with the criteria set forth in section 2-470 on the form required by city; and**
- b) An affidavit swearing compliance with the criteria set forth in [section 2-470](#) on the form required by the city from every subcontractor at any tier who will perform work on the project.

[Failure to submit the required affidavit, or providing incorrect, false, or misleading information may disqualify the contractor's bid.](#)

SECTION 2. All ordinances and parts of ordinances conflicting with this ordinance are hereby repealed.

SECTION 3. This ordinance shall be in full force and effect from and after its passage and publication.

City of Superior, Wisconsin

8. AFFIDAVIT OF ORGANIZATION AND AUTHORITY (Must be submitted with Bid)

STATE OF _____)
) SS
COUNTY OF _____)

_____ being duly sworn on oath deposes and states that the bidder on the attached bid proposal is organized as indicated below and that all statements herein made are made on behalf of such bidder and that this deponent is authorized to make them.

Complete Applicable Paragraphs:

1. CORPORATION

The bidder is a corporation organized and existing under the laws of the State of _____, its president is _____, its secretary is _____, and it does (does not) have a Corporate Seal. The president is authorized to sign construction contracts and bids for the company by action of its board of directors taken _____ a certified copy of which is hereto attached. (Strike out last sentence if not applicable.)

2. PARTNERSHIP

The bidder is a partnership consisting of _____ and _____ partners doing business under the name of: _____

3. SOLE TRADER

The bidder is an individual and if operating under a trade name, such trade name is:

4. LIMITED LIABILITY COMPANY

The undersigned is the _____ (title) of _____, a Limited Liability Company organized and operated under the laws of the State of _____.

5. ADDRESS

The business address and phone number of bidder is:

6. STATUTORY SWORN STATEMENT

_____ also deposes and states that he has examined and carefully prepared this bid proposal from the plans and specifications and has checked the same in detail before submitting this proposal or bid, and that the statements contained herein are true and correct.

(Authorized Signature)

Subscribed and sworn to before me,
this ____ day of _____, 2024

Notary Public
County of _____
My Commission Expires _____

City of Superior, Wisconsin

9. CONTRACT (to be finalized after award)

9.1 Preamble

This contract made this ____ day of _____, 2024, by and between _____, a corporation, herein called "Contractor", and the City of Superior, a municipal corporation, located in Douglas County, Wisconsin, herein called "'Owner' or 'City'".

WITNESSETH, that the Contractor and Owner for the consideration stated herein, agree as follows:

9.2 Article I - Scope of Work

The Contractor shall perform everything required to be performed and shall provide and furnish all the applicable labor, materials, equipment, necessary tools, expendable equipment, insurance provided by the specifications, contributions to social security and all utility and transportation services required to perform and complete in a workmanlike manner the following work:

**Hammond Avenue
N 21st Street – Belknap Street**

All work shall be in strict compliance with the Contractor's proposal and other contract documents, herein mentioned as component parts of this contract.

9.3 Article II - Contract Price

The Owner shall pay the Contractor for the performance of this contract on the basis of measurements made on the site of the work by the City Engineer, according to the unit of measurement in the bid item(s). **The Contractor shall meet with the City's engineer representative a minimum of once weekly to review quantities for billing.** Overruns shall not be paid for without prior written approval of the Engineer.

Contractor shall not be entitled to payment for work found deficient or failing to conform to the requirements set forth in this agreement and is not entitled to further payments until corrected to the satisfaction of the Director of Public Works, at the cost of the Contractor. The City will inform the Contractor of any deficiencies and/or items that do not conform to this contract within thirty (30) days of receipt.

Unless otherwise provided in the special provisions, payments are to be made to the Contractor within 30 days of receipt of an approved payment application/invoice on the basis of written approval of estimates by the Owner of the value of the work performed during the preceding billing period. However, in accordance with 66.0901(9) Wisconsin Statutes, owner will retain five percent (5%) of the amount of each such estimate, until the work has been completed. This retainage will be held until completion and acceptance of all work included in this contract.

Submission of a final payment application/invoice shall be accompanied by applicable

Hammond Ave N 21st - Belknap 34

City of Superior, Wisconsin

payroll reports and final unconditional lien waivers (from all sub-contractors and suppliers) to the Owner. Prior to release of final payment, the Public Works Department shall review project documents submitted by Contractor to determine the satisfaction thereof; it will be at the Public Works Department's sole discretion when the final payment is made. Final payment will be made to Contractor within thirty (30) days of the City's acceptance of services as complete.

The Owner, in case the work under this contract is not completed within the time required or within an extended time approved in writing by the Owner, is authorized to take charge of the work and finish it at the expense of the Contractor and his sureties, and to apply the amount retained from estimates to the completion of the work.

9.4 Article III - Component Parts of this Contract

This contract consists of the following component parts, all of which are as fully a part of it as if set out verbatim herein, or if not attached, as if the same were hereto attached:

1. Advertisement to Bid
2. Instructions to Bidders
3. Bid Proposal
4. Subcontractors & Suppliers Listing
5. Addenda Acknowledgment and all addenda
6. Bid Bond
7. Bidder's Proof of Responsibility
- 7a. Affidavit of Compliance from Contractor and All Sub-Contractors
8. Affidavit of Organization and Authority
9. Contract
- 9.6 Certificate of Insurance
10. Performance and Payment Bond
11. General Specifications
12. Engineer's Plans
13. Special Provisions
14. Contract Change Order
15. Additional Attachments per Index

The contract documents form a complete unit and requirements called for by one are as binding as if called for by all. In cases of conflict between plans and specifications, the specifications shall govern. Special and/or Technical Specifications shall control over General Specifications.

9.5 Article IV - Payment for Labor & Materials

The Contractor specifically agrees to pay for all claims for labor performed at rates at least equal to the wage scale on file with the Owner for this project and materials furnished, used and consumed in completing the foregoing contract, together with all items enumerated in Section 779.035, of the Wisconsin Statutes, as the obligation of the Contractor. No assignment, modification or change in the contract, or change in the work covered thereby, or any extension of time for completion of the contract shall release the sureties on the bond.

City of Superior, Wisconsin

9.6 Article V – Insurance

Within ten (10) days after the execution of the contract, and prior to commencement of any work, the Contractor shall file with the Owner, satisfactory evidence of having adequate worker’s compensation insurance and public liability insurance, both personal and property, as outlined in the General Specifications, 11.3.

In Witness Whereof, the parties hereto have caused this instrument to be executed in three (3) original counterparts the day and year first written.

9.7 Non-Discrimination

Upon execution of this Agreement, Contractor agrees as follows:
Contractor and all Subcontractors do not discriminate against any employee, applicant for employment, independent contractor, or any other persons because of race, color, religion, sex, sexual orientation, gender identity, or national origin.

9.8 Authority

The Contractor represents that is has the authority to enter into this Agreement. If the Contractor is not an individual, the person(s) signing on behalf of the Contractor represents and warrants that they have been duly authorized to bind the Contractor and sign this Agreement on the Contractor’s behalf.

9.9 Signatures

SIGNED AND SEALED: COMPANY:
ADDRESS:
PHONE:

Signer

Signer

ATTEST: CITY OF SUPERIOR, WISCONSIN

Jim Paine, Mayor

Heidi Blunt, City Clerk

Nicholas Rhinehart, Finance Director

Frog Prell, City Attorney

Provision has been made to pay the liability that will accrue under this contract.

***Approved by the City Council on**

10. PERFORMANCE AND PAYMENT BOND (Sample)

AIA Document A312™ - 2010 Performance and Payment Bond is the preferred document.

KNOW ALL MEN BY THESE PRESENTS THAT _____
of _____, and _____ as principal, and
_____ of _____, a corporation and existing under the laws of the
State of Wisconsin (hereinafter called “surety”), as surety are held and firmly bound unto the City of Superior, a municipal
corporation, of the State of Wisconsin, in the penal sum of \$_____ Dollars, good and lawful money of the
United States of America, to be paid to the City of Superior, Wisconsin, its duly authorized attorneys, agents, officers,
successors and assigns for which payment, well and truly to be made, we bind ourselves, our heirs, administrators,
executors, successors and assigns, jointly and severally firmly by these presents.

WHEREAS, the above bound principal has entered into a certain written contract with the City of Superior,
Wisconsin, dated this ____ day of _____, 2023, which contract is hereby referred to and made a part
hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, the condition of the above obligation is such that if the above bound principal shall well and
truly keep, do and perform each and every matter and thing in said contract set forth and specified to be by the said
principal kept, done and performed at the time and in the manner in said contract specified, and shall pay over, make good
and reimburse to the forenamed City, all loss and damage which said City may sustain by reason of failure or default on the
part of said principal and shall pay to every person entitled thereto all claims for labor performed and materials furnished,
used or consumed in performing the work provided in said contract including, without limitation because of enumeration,
fuel, lumber, building materials, machinery, vehicles, tractors, equipment, fixtures, apparatus, tools, appliances, supplies,
electric energy, gasoline, motor oil, lubricating oil, greases, state imposed taxes, premiums for worker’s compensation
insurance and contributions for unemployment compensation, then this obligation shall be void; otherwise, it shall be and
remain in full force and effect.

Contractor _____
Representative _____
Title _____
Insurance Company _____
Representative _____

Attest: _____

11. GENERAL SPECIFICATIONS

11.1 GENERAL

Unless otherwise stated, all work and conditions of this contract shall be performed in accordance with the State of Wisconsin Department of Transportation (WisDOT), Standard Specifications for Highway and Structure Construction (including erosion control), 2024 Edition and current Supplemental Specifications, or in accordance with the Wisconsin Department of Commerce.

State and/or Federal funds may be used to fund all or part of this contract. The City will not be held liable for any damages incurred due to changes in State or Federal funding, including (but not limited to) a reduction or cancellation of the project.

This is a federally assisted project and Davis Bacon requirements will be enforced. Contractors, including subcontractors, must be eligible to participate. Federal Wage Determination Numbers WI20240010 and WI20240008 are incorporated into this contract and attached as Attachment A and B.

11.2 SUBSTITUTIONS

The following terms shall be substituted in the specifications:

- a. "Owner" or "City" is the City of Superior.
- b. "Engineer" is the Contracted Engineer/Architect for the City of Superior or the City Engineer assigned to the project.

11.3 INSURANCE

The Contractor shall not commence work on contract until proof of insurance required has been provided to the applicable department before the contract or purchase order is considered for approval by the City.

It is hereby agreed and understood that the insurance required by the City is primary coverage and that any insurance or self-insurance maintained by the City, its officers, council members, agents, employees or authorized volunteers will not contribute to a loss. All insurance shall be in full force prior to commencing work and remain in force until the entire job is completed and the length of time that is specified, if any, in the contract or listed below whichever is longer.

CONTRACTOR—LIABILITY

A. Commercial General Liability coverage at least as broad as Insurance Services Office Commercial General Liability Form, including coverage for Products Liability, Completed

Operations, Contractual Liability, and Explosion, Collapse, Underground coverage with the following minimum limits and coverage:

- | | |
|---|-------------|
| 1. Each Occurrence limit | \$1,000,000 |
| 2. Personal and Advertising Injury limit | \$1,000,000 |
| 3. General aggregate limit (other than Products-Completed Operations) per project | \$2,000,000 |
| 4. Products-Completed Operations aggregate | \$2,000,000 |
| 5. Fire Damage limit — any one fire | \$50,000 |
| 6. Medical Expense limit — any one person | \$5,000 |
| 7. Products - Completed Operations coverage must be carried for two years after acceptance of completed work. | |

B. Automobile Liability coverage at least as broad as Insurance Services Office Business Automobile Form, with minimum limits of \$1,000,000 combined single limit per accident for Bodily Injury and Property Damage, provided on a Symbol #1- "Any Auto" basis.

C. Workers' Compensation as required by the State of Wisconsin and Employers Liability insurance with sufficient limits to meet underlying Umbrella Liability insurance requirements. If applicable for the work coverage must include Maritime (Jones Act) or Longshoremen's and Harbor Workers Act coverage.

Provide a waiver of subrogation in favor of the City for the workers' compensation.

D. Umbrella Liability providing coverage at least as broad as the underlying Commercial General Liability, Automobile Liability and Employers Liability, with a minimum limit of \$2,000,000 each occurrence and \$2,000,000 aggregate, and a maximum self-insured retention of \$10,000. The umbrella must be primary and non-contributory to any insurance or self-insurance carried by the City.

F. Builder's Risk / Contractor's Equipment or Property - The contractor is responsible for loss and coverage for these exposures. City will not assume responsibility for loss, including loss of use, for damage to property, materials, tools, equipment, and items of a similar nature which are being either used in the work being performed by the contractor or its subcontractors or are to be built, installed, or erected by the contractor or its subcontractors.

INSURANCE REQUIREMENTS FOR SUBCONTRACTOR

All subcontractors shall be required to obtain Commercial General Liability (if applicable Watercraft liability), Automobile Liability, Workers' Compensation and Employers Liability, (if applicable Aircraft liability) insurance. This insurance shall be as broad and with the same limits as those required per Contractor requirements, excluding Umbrella Liability, contained in Section 1 above.

**APPLICABLE TO CONTRACTORS / SUBCONTRACTORS /
SUB-SUB CONTRACTORS**

- A. Primary and Non-contributory requirement - all insurance must be primary and non-contributory to any insurance or self-insurance carried by City.
- B. Acceptability of Insurers - Insurance is to be placed with insurers who have an **A.M. Best** rating of no less than A- and a Financial Size Category of no less than Class VII, and who are authorized as an admitted insurance company in the state of Wisconsin.
- C. **Additional Insured Requirements - The following must be named as additional insureds on all Liability Policies for liability arising out of project work – City of Superior**, and its officers, council members, agents, employees and authorized volunteers. On the Commercial General Liability Policy, the additional insured coverage must be ISO form CG 20 10 07 04 and also include Products - Completed Operations additional insured coverage per ISO form CG 20 37 07 04 for a minimum of 2 years after acceptance of work. This does not apply to Workers' Compensation Policies.
- D. Deductibles and Self-Insured Retentions - Any deductible or self-insured retention must be declared to and approved by the City.
- E. Evidences of Insurance - Prior to execution of the agreement, the Contractor shall file with the City a certificate of insurance (Accord Form 25-S or equivalent) signed by the insurer's representative evidencing the coverage required by this agreement. In addition form CG 20 10 07 04 for ongoing work exposure and form CG 20 37 07 04 for products-completed operations exposure must also be provided or its equivalent.

Such liability policies shall contain a provision or endorsement covering any contingent liability of the City of Superior. **The City is to be shown as “additionally insured” and the project is to be listed on the certificate.** The naming of said entities as Certificate Holders will not be acceptable. Certificates of worker's compensation and personal and public liabilities, along with the provision indemnifying the City of Superior must be submitted by the successful bidder.

11.3.5 IDEMNIFICATION

Contractor hereby agrees to indemnify, defend and hold harmless the City its elected and appointed officials, officers, employees, agents, representatives and volunteers, and each of them, from and against any and all suits, actions, legal or administrative proceedings, claims, demands, damages, liabilities, interest, attorneys' fees, costs, and expenses of whatsoever kind or nature in any manner directly or indirectly caused, occasioned, or contributed to in whole or in part or claimed to be caused, occasioned, or contributed to in whole or in part, by reason of

any act, omission, fault, or negligence, whether active or passive, of Contractor or of anyone acting under its direction or control or on its behalf, even if liability is also sought to be imposed on the City, its elected and appointed officials, officers, employees, agents, representatives and volunteers.

The obligation to indemnify, defend and hold harmless the City, its elected and appointed officials, officers, employees, agents, representatives and volunteers, and each of them, shall be applicable unless liability results from the sole negligence of the City, its elected and appointed officials, officers, employees, agents, representatives and volunteers.

Contractor shall reimburse the City, its elected and appointed officials, officers, employees, agent or authorized representatives or volunteers for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided. In the event that Contractor employs other persons, firms, corporations or entities (subcontractor) or volunteers as part of the work covered by this Agreement, it shall be responsibility of the Contractor to require and confirm that each sub-contractor enters into an Indemnity Agreement in favor of the City, its elected and appointed officials, officers, employees, agents, representatives and volunteers, which is identical to this Indemnity Agreement.

This indemnity provision shall survive the termination or expiration of this Agreement.

11.4 PERFORMANCE AND PAYMENT BOND

Contractor shall execute and furnish a completed PERFORMANCE AND PAYMENT BOND in the total amount of the approved bid, to be supplied to the Owner along with the required signed contract documents. AIA Document A312™ - 2010 is the preferred Performance and Payment Bond document.

11.5 LABOR LAWS AND REQUIREMENTS

Davis Bacon Prevailing Wages. The Davis Bacon Act (40 USC, Chapter 3, Section 276a-5; and 29 CFR Parts 1, 3, 5, 6 and 7) is triggered when any construction work over \$2,000 is financed in whole or in part with CDBG funds. The Contractor agrees to comply with the requirements of the Secretary of Labor in accordance with the Davis-Bacon Act as amended, the provisions of Contract Work Hours and Safety Standards Act, the Copeland "Anti-Kickback" Act (40 U.S.C. Chapter 3, 276a-276a-5; 29 CFR Parts 1, 3, 5, 6, and 7; 40 USC 327 and 40 USC 276c, Chapter 3, Section 276c; 18 USC, Part 1, Chapter 41, Section 874; 29 CFR Part 3; 40 USC, Chapter 5, Sections 326-332; 29 CFR Part 4, 5, 6 and 8; 29 CFR Part 70 to 240), Section 3 of the Housing and Urban Development Act of 1968 and all other applicable Federal, state and local laws and regulations pertaining to labor standards insofar as those acts apply to the performance of this contract. The Contractor shall maintain documentation which demonstrates compliance with hour and wage requirements of this part. Such documentation shall be made available to the City for a minimum period of three years after completion.

The Copeland Anti-Kickback Act (40 USC, Chapter 3, Section 276c and 18 USC, Part 1, Chapter 41, Section 874; and 29CFR Part 3) requires that workers be paid weekly, that deductions from workers' pay be permissible, and that contractors maintain and submit weekly payrolls.

The Contract Work Hours and Safety Standards Act (40 USC, Chapter 5, Sections 326-332; and 29 CFR Part 4, 5, 6 and 8; 29 CFR Part 70 to 240) applies to contracts over \$100,000 and requires that workers receive overtime compensation (time and on-half pay) for hours they have worked in excess of 40 hours in one week.

The Contractor certifies and agrees that no contractual or other legal incapacity exists which would prevent compliance with these requirements.

Equal Employment Opportunity. During the performance of this Contract, the contractor agrees that if the Contract amount is over \$10,000, the following conditions apply: Contractor will abide by the rules and regulations of Executive Order 11246, which prohibits employment discrimination by Federal contractors and subcontractors and federal assisted construction contractors and subcontractors.

Inspections & Interviews. Permit the City, or their designees to examine, inspect the work under this Contract before and after completion and interview workers. Cooperate with the City in completing progress inspections, final inspection of the work and documentation of onsite job interviews.

11.6 DISCRIMINATION AND PROHIBITED INTERESTS

- a. The City requires from the Contractor the following and also requires the Contractor to insert into each subcontract the following:
 - 1.) In connection with the performance of work under this Agreement, the Contractor agrees not to discriminate against any employee or applicant for employment because of age, race, religion, color, handicap, sex, physical condition, developmental disability as defined in s 51.01 (5) Wisc. Stats., sexual orientation or national origin. 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. In connection with the performance of its work under the Agreement and except with respect to sexual orientation, Contractor further agrees to take affirmative action to ensure equal employment opportunities. In connection with the performance of its work under the Agreement, Contractor agrees to post in conspicuous places, available for employees and applicants for employment, notices to be provided by WisDOT setting forth the provisions of this nondiscrimination

- clause.
- 2.) No official, officer or employee of the City of Superior, during his or her tenure or for one (1) year thereafter, shall have any interest, direct or indirect, in this contract or in the proceeds thereof except as permitted under s. 946.13 (2) Wis. Stats.
 - 3.) No member of or delegate to Congress or to the Wisconsin State Legislature shall share any benefit that may arise from this Agreement.
- b. The City requires from the Contractor and also requires the Contractor to insert in each subcontract the following:
- 1.) Contractor shall comply with the following laws, policies, regulations and pertinent directions as may be applicable and will require its subcontractor through contractual agreement to similarly comply:
 - a. Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d et seq.
 - b. Title II and Title III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, 42 W.S.C. 4601 et seq.
 - c. Federal Occupational Safety and Health Act of 1970, 29 U.S.C. 653, et seq., and any other applicable occupational safety and health laws or regulations.
 - 2.) Contractor agrees that no otherwise qualified disabled individual in the United States as defined in Section 706 (8) of Title 29 U.S.C., or as specifically provided for in subchapter II of Chapter 111, Wis. Stats., or in Title I of the American With Disabilities Act of 1990, 42 U.S.C. 12111, et seq., shall, solely by reason of disability, be excluded from participation in, be denied benefits of, or be subjected to discrimination under any program or activity receiving benefits under this agreement.

11.7 LICENSES, PERMITS AND APPROVALS

The Contractor warrants that he is properly licensed and possesses all the necessary qualifications as required by the federal, state and local laws, ordinances, regulations, etc., prior to commencing work, and shall remain in good standing for the duration of the project.

The Contractor is responsible for all local, state and federal permits and approvals which may apply to this project. The fees for local permits will be waived upon receipt of application of such permits and it is noted that the permit late fee of \$750.00 per permit will be the financial responsibility of contractor. Normal local inspections will be required, including final inspection of the project by the applicable local departments.

The Contractor shall give all notices required by law and comply with all laws, statutes, ordinances, rules and regulations that affect the conduct and prosecution of the project. The Contractor shall be liable for all violations of the law in connection with work furnished by the Contractor. If Contractor performs any work that it knew or should have known to be contrary to such laws, statutes, ordinances, rules and regulations and without giving notice to the City, the Contractor shall be responsible for all costs arising therefrom.

The City will consider no plea of misunderstanding or ignorance of these requirements.

11.8 OBSTRUCTION OF STREETS AND SIDEWALKS

The Contractor shall promptly remove any dirt or debris which is caused by its performance of this contract and clean all streets, sidewalks, alleys and public property which is soiled by Contractor's actions or omissions. If the Contractor shall, in any manner, obstruct a street or sidewalk or other public grounds, he shall erect, install, maintain and pay for barriers and lights to prevent accidents and shall be liable for damages caused by the obstruction and for any damage or disruption to streets, alleys or public grounds which may result from his intentional or negligent prosecution of such work in accordance with Section 62.15 (11) of the Wisconsin Statutes. The Contractor shall also be bound by any further requirements of the specifications on this point.

11.9 PROSECUTION AND PROGRESS

Prosecution and Progress shall be accomplished in accordance with the Special Provisions, Section 3.

11.10 COORDINATION OF CONTRACTORS

The City may award or may contract for additional work outside the scope of this contract. The Contractor shall fully cooperate with any other Contractor, City employee, and engineer or designated representative of the City, by scheduling its own work with that to be performed under other Contracts as may be directed by the City. The Contractor shall not commit or permit any act which will interfere with the performance of any other Contractor, agent, City employee, engineer or designated representative as scheduled.

Employees of the Contractor must be able to work within a public setting without creating a disruption and conform to all policies, rules and regulations. Contractor shall require that their employees be courteous at all times, not to use loud or profane language, and to work as quietly as possible. Contractor shall require that its employees shall not trespass, loiter, cross property to adjoining premises, or tamper with property not covered by the contract.

Contractor agrees to observe and obey all applicable laws, ordinances, rules and regulations promulgated and enforced by the City and by any other proper authority having jurisdiction over the work performed herein.

Special Conditions Where special conditions or special purposes require the consideration of deviations from these specifications, any such deviations must be

authorized by the Owner.

11.11 CHANGE ORDERS

Any change to the signed contract must be approved by the Owner, in writing, prior to the commencement of the change (see CONTRACT CHANGE ORDER). All changes/amendments/addition/ deletions to the original contract must be described on the Contract Change Order form (duplicate blank copies as necessary) with the necessary increase/decrease in contract price indicated. Change orders will need to include any invoices and supporting documents. These changes will include applicable project extension time requests. Form is to be numbered and is to be signed by the Contractor and approved by the Engineer and the Owner.

11.12 TIME PENALTIES

Should the Contractor fail to complete the work within the time agreed upon or within such extra time as may be allowed by extensions (see Item 11.9 above), there shall be deducted from any monies due or that may become due the Contractor, for each and every calendar day that the work shall remain uncompleted, a sum assessed as specified in Section 108.11 *Liquidated Damages* of the State of Wisconsin Department of Transportation (WisDOT), Standard Specifications for Highway and Structure Construction (including erosion control), 2024 Edition and current Supplemental Specifications, except that this sum shall be considered a penalty, a fixed and agreed-to-sum due the City from the Contractor by reason of inconvenience to the public, added cost of engineering and supervision, maintenance of detours and other items resulting from the Contractor's failure to complete the work within the time specified in the contract. If the penalties exceed the balance of monies that would otherwise have been due the contractor, the Contractor or the Contractor's Surety shall be responsible for payment of all such penalties to the Owner as liquidated damages.

11.13 GUARANTEE/WARRANTY

The Contractor shall assume responsibility for all defects which may develop in any part of the bid project caused by faulty workmanship, material or equipment and agrees to replace any such faulty workmanship, material and equipment, during the period of two (2) years from date of final payment, which includes the retainage, without cost to the Owner. Contractor shall coordinate any manufacture's warranties for the Owner during the two-year period, without any cost to the Owner.

Acceptance of the project shall not waive this guarantee. Final acceptance shall be determined as date of letter from Owner or Engineer approving final payment. Contractor is responsible for coordinating manufacturer warranty replacements should problems arise in the guarantee period. The warranty period shall begin upon the contractor's receipt of final

payment, unless otherwise agreed upon in writing by the Owner.

11.14 AS-BUILTS and WARRANTY DOCUMENTS

Within ten (10) days of substantial completion and prior to final payment by the Owner, the Contractor is to supply the Owner with project “as-builts” and all product warranty information. As-builts must be submitted in CAD, GIS or adobe file format or another format agreed upon by Owner.

11.15 CONTROL OF THE WORK

Control of the work shall be accomplished in accordance with WisDOT Standard Specifications 2024, Section 105.

The Contractor shall, before proceeding to another phase of construction, have approval of the engineer.

MANY UTILITY OWNERS HAVE EXISTING FACILITIES NEAR OR AT THE LOCATION OF THE WORK REQUIRED UNDER THIS CONTRACT. The Contractor shall contact **Diggers Hotline at 1-800-242-8511** to determine locations are safe and will make any adjustments recommended by the locator prior to performing any excavation operations under this contract.

11.16 SCOPE OF WORK

The scope of work for this project shall be in accordance with WisDOT Section 104, unless otherwise set forth in the Special Provisions.

The Contractor shall be responsible for the maintenance of traffic control. The Contractor shall provide, erect and maintain all barricades.

11.17 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

The Contractor shall fulfill all legal relations and responsibilities to the public in accordance with WisDOT Standard Specifications 2024, Section 107 and as follows:

The Contractor shall work in cooperation with utility companies in the protection of water and gas mains and other utilities that may be within the limits of construction. It shall be the duty of the Contractor to notify the utility company or companies involved before starting work on this project.

All necessary work of adjusting any underground relocation will be performed by their owners, unless otherwise shown on the plans. The work to maintain and/or adjust these utilities shall be considered incidental to the project.

The Superior Water, Light and Power Company will relocate any power poles or fire hydrants during construction operations, unless otherwise noted in the special provisions or if a cooperative agreement is established with Superior Water, Light and Power Company. The City of Superior has authority over all sanitary and storm sewers. The Superior Water, Light and Power Company will adjust all water shutoffs and gas shutoffs during construction.

11.18 SAFETY AND SECURITY

The Contractor shall at all times perform in a safe and workmanlike manner to avoid injury or damage to any person or property. The Contractor shall comply with all requirements and specifications relating to the safety, health and sanitation measures applicable to the project. The Contractor shall exercise all necessary precautions for the safety of its employees, and be in compliance with all applicable federal, state and local laws, statutes, ordinances, rules and regulations, including, but not limited to, the Wisconsin Labor Code, The U.S. Department of Transportation Omnibus Transportation Employee Testing Act, Canadian Pacific – Minimum Safety Requirements for Contractors, and OSHA standards.

The contractor shall provide all necessary safeguards, devices and protective equipment, including but not limited to adequate life protection and lifesaving equipment, and shall ensure the proper inspection and maintenance of safety measures are current and in compliance.

The City may halt construction on any project where appropriate safety measures and equipment are not being used or any safety regulations are not being followed. Work will not be permitted to resume until required safety provisions have been made and delays as a result of this provision will not be considered a basis for an increase in the contract price or an extension of the completion deadline.

11.19 PRE-CONSTRUCTION CONFERENCE

A preconstruction conference will be required prior to commencing work. The conference may be initiated by the contractor.

11.20 PROJECT DOCUMENT SUBMISSIONS

As a condition of final payment, the following documents must be submitted and accepted by the City:

- a. Lien waivers – final unconditional lien waives from each sub-contractor and/or supplier must be submitted to the City.
- b. As-builts & product warranties - as noted in Section 11.13, these documents must be submitted to City.
- a. Retainage – Contractor’s final invoice is to indicate the balance of work completed and/or the total amount of retainage due the Contractor.
- c. Local inspections - final inspection reports must be submitted to the City.
- d. Project completion documentation - written documentation from the project engineer confirming the completion of the project.
- e. Forms as required by project documents

- f. Weekly certified payroll reports and other certifying forms related to the requirements of this project, from Contractor and all SubContractors.

11.21 CLEAN WATER FUND AND SAFE DRINKING WATER FUND PROCUREMENT – AMERICAN IRON AND STEEL CONSTRUCTION CONTRACT LANGUAGE

The Contractor acknowledges to and for the benefit of the City of Superior (“Purchaser”) and the State of Wisconsin (“State”) that it understands the goods and services under this Agreement are being funded with monies made available by the Clean Water State Revolving Fund and or Drinking Water State Revolving Fund that have statutory requirements commonly known as “American Iron and Steel”; that requires all of the iron and steel products used in the project to be produced in the United States (“American Iron and Steel Requirement”) including iron and steel products provided by the Contractor pursuant to this Agreement. The Contractor hereby represents and warrants to and for the benefit of the Purchaser and the State that (a) the Contractor has reviewed and understand the American Iron and Steel Requirement, (b) all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the Purchaser or the State. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or State to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney’s fees) incurred by the Purchaser or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the Purchaser). While the contractor has no direct contractual privity with the State, as a lender to the Purchaser for the funding of this project, the Purchaser and the Contractor agree that the State is a third-party beneficiary and neither this paragraph (nor any other provision of this Agreement to give this paragraph force or effect) shall be amended or waived without the prior written consent of the State.

12. ENGINEER CERTIFICATION

See page 1 of plans

13. SPECIAL PROVISIONS – attached

Special Provisions

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STSP'S Revised June 29, 2023

SPECIAL PROVISIONS

1. General

Perform the work under this construction contract for Hammond Avenue, N 21st Street to Belknap Street, Douglas County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2024 Edition, as published by the department, and these special provisions.

In case of conflict, the first listed standard shall take precedence.

1. Comply with all applicable Sections of "Standard Specifications for Sewer & Water Construction in Wisconsin, Sixth Edition with Addendum No.1 and No.2". Requests for copies of the "Standard Specifications" should be forwarded to: Public Works Industry Improvement Program, 2835 North Mayfair Road, Milwaukee, Wisconsin 53222 or requested by telephone at (414) 778-1050.

2. Comply with all applicable Sections of "State of Wisconsin, Department of Transportation (WI DOT), Standard Specifications for Highway and Structure Construction, 2024 Edition.

3. Comply with all applicable Sections of Wisconsin Administrative Code.

4. Comply with all applicable Sections of City of Superior Administrative Code.

All references to "Owner" or "Department" in these documents and all references to State of Wisconsin and Department of Transportation within the Wisconsin Standard Specifications shall mean the City of Superior.

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

100-005 (20230629)

2. Scope of Work

The work under this contract shall consist of removing pavement, base aggregate dense, subbase, HMA pavement, concrete sidewalk, concrete curb and gutter, storm sewer, water main, curb ramp detectable warning fields, pavement marking and restoration work 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 ten 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.

Requests for changes to the timeline must be submitted in writing to the Engineer as soon as circumstances are known; the Engineer will approve or deny the request based on the conditions cited in the request and its effect on the City's schedule.

Complete construction operations on Hammond Avenue to the stage necessary to reopen it to through traffic prior to 12:01 AM October 14, 2024. Do not reopen until completing the following work: finished pavement, curb and gutter, and pavement marking.

The Contractor shall contact and coordinate the access needs of property owners. Contact property owners in regard to the elimination of vehicular access, allowing the property owner at least twenty-four (24) hours in advance of such access closure.

Northern Long-eared Bat (*Myotis septentrionalis*)

Northern long-eared bats (NLEB) have the potential to inhabit the project limits because they roost in trees, bridges and culverts. Tree clearing areas specified in plans are not considered suitable summer habitat for NLEB and no tree clearing restrictions apply to those locations. Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

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

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

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

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.

4. Traffic

Hammond Avenue will be closed to traffic during construction operations from Belknap Street to N 21st Street.

Side Street Access

Side streets will be closed during construction operations, provide contractor access to project. Maintain vehicular traffic to residences with accesses only on Hammond Avenue, when this is not possible, notify property owners 48 hours in advance of closure and provide pedestrian access to properties.

Belknap Street will remain open to traffic. No access to Hammond Avenue will be provided from Belknap Street. Close the Belknap lane closest to Hammond Avenue during construction. The other Belknap eastbound through lane will remain open to traffic at all times. The left turn lane on Belknap Street turning onto Hammond Avenue may be used for eastbound Belknap Street traffic.

The intersections with Hammond Avenue and 16th Street, Harrison Street, 17th Street, 18th Street, 19th Street and 20th Street will be closed during construction operations. Maintain 18th Street through traffic during construction when possible.

Keep 21st Street open during construction, closing only when necessary to reconstruct. Re-open to 21st Street through when reconstruction is complete at the intersection.

Alley Access

Maintain alley access at all times during construction.

Perform work in such a manner to ensure pedestrian access to adjacent residences at all times. At the direction of the engineer, construct temporary crushed aggregate base course walks to replace removed concrete sidewalks.

Use Drums and/or barricades to protect hazards in the work zone - such as exposed manholes, inlets, or drop-offs for pedestrians and vehicles.

5. Public Convenience and Safety

Revise standard spec 107.8(6) as follows:

Check for and comply with local ordinances governing the hours of operation of construction equipment. Do not operate motorized construction equipment from 8:00 PM until the following 6:00 AM, unless prior written approval is obtained from the engineer.

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 Belknap Street or 21st Street traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday and special event periods:

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

stp-107-005 (20210113)

7. Hauling Restrictions

Conduct operations in a manner that will cause a minimum of inconvenience to the free flow of vehicles on roadways carrying Belknap Street, and N 21st Street traffic.

8. Dewatering

Any dewatering required during construction shall be properly treated before it is allowed to enter any wetlands or surface waters. Prepare a dewatering plan as part of the Erosion Control Implementation Plan (ECIP) and provide 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 discharge of the water.

Use the Wisconsin Department of Natural Resources Technical Standard on Dewatering (standard number 1061) as found on their website at <http://dnr.wi.gov/> for the appropriate best management practice and proper application and sizing of such to the maximum extent possible. As part of the Erosion Control Implementation Plan (ECIP) submittal, supply all pertinent information and calculations used to determine the best management practice for dewatering at each location it is required. Prior to construction, obtain approval from the engineer for the proposed method of treatment including supporting calculations.

Work under this item shall include all work, materials, equipment, permitting and incidentals required to dewater the site during construction or to work with the water on-site in a manner that allows the project to be constructed in accordance to the plans and specifications. This provision includes the dewatering of groundwater and surface water runoff, and trench dewatering. The contractor is responsible for all work, materials and equipment required to comply with permit conditions to dewater the site.

Any polymers or other materials included in the dewatering plan for sediment coagulation are incidental to the dewatering and shall be on the Wisconsin Department of Natural Resource approved list for these projects.

Dewatering will be incidental to the contract. Dewatering will include all work necessary for constructing temporary settling basins, pumping, settling, and discharging water; for any permit fees required; and for furnishing all labor, tools, equipment, and incidentals necessary to complete work.

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

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

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

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

A certificate of permit coverage is available from the regional office by contacting Chris Carlson at 715.395.7529. Post the permit certificate in a conspicuous place at the construction site.

stp-107-056 (20230629)

10. Utilities

This contract does not come under the provision of Administrative Rule Trans 220.

stp-107-066 (20080501)

City of Superior (Sanitary Sewer) has a sanitary sewer main crossing south of N 21st Street. Another sanitary main runs down the alley south of Belknap Street on the west side of Hammond Avenue, crosses Hammond Avenue, continues south and east on N 16th Street. Sanitary sewer linings, adjustments, and installations will occur under this project.

City of Superior - CAN (Community Area Network) has underground fiber optic facility along the east side of Hammond Avenue along the length of the project. The contact for the CAN is the City of Superior Public works. Several handholes will be relocated during the project.

Entrust Solutions – Fiber Optic (Private System) will be installing underground fiber optic facility along Hammond Avenue along the length of the project.

Norvado (COMLN) has underground fiber optic facilities along Hammond Avenue.

Norvado has a fiber optic line on the south side of N 21st Street on the east side of Hammond Avenue, a vault is located on the southeast corner of Hammond Avenue and N 21st Street. The line continues out of the vault to the north on the east side of Hammond Avenue between the back of curb and sidewalk. The line continues to the north to a vault at the corner of N 18th Street and Hammond Avenue. The line continues to N 16th Street (West) to a vault. The line then crosses Hammond Avenue on the north side on N 16th Street to the alley.

Contractor will contact Packerland 5 days prior to working near vault locations. Where the proposed storm sewer pipes crosses the fiber optic line, caution will be required during construction, line will be supported by the contractor if the opening is more than 10' wide. Norvado will have a watchman on site during any storm sewer installation. Contractor will contact Norvado 5 days prior to working in these locations.

Superior Water Light and Power (SWL&P) - Water has watermain throughout the project.

There is a water system that exists throughout the project area. This system is generally shown for reconstruction for the length of the project.

Superior Water Light and Power (SWL&P) - Gas

SWL&P has underground gas lines throughout the project area:

Main gas line splits at the alley between N 16th and Belknap Street.

One line continues east to the back of the sidewalk on the east side of Hammond Avenue and continues south along the back of the sidewalk to N 28th Street.

One line continues west to the alley continues south down the alley to N 18th street, back to Hammond Avenue to the back of the sidewalk and continues south along the back of the sidewalk to N 28th Street.

Conflicts are not anticipated. Locations of facilities are approximate. Field locates will be required prior to construction. Notify SWL&P 48 hours prior to construction within 10 feet of their lines. SWL&P requests to be on-site during excavation within 10 feet of their lines.

11. 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 one meeting per month thereafter. The contractor shall arrange for a suitable location for meetings that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for meetings. The contractor shall schedule meetings with at least 2 weeks' prior notice to the engineer to allow for these notifications.

stp-108-060 (20141107)

12. Coordination

The Contractor shall be responsible for the coordination of the contract and scheduling with the utility companies, the City's Contractor, City of Superior personnel, and emergency services.

The City's Contractor shall coordinate all utility tie-ins (sanitary sewer and watermain) with the City. The Contractor shall be responsible for coordinating all service connections to existing service with individual property owners, or their plumbers.

The Contractor shall be responsible for contacting the City's Contractor and coordinating utility activities.

The Contractor shall be responsible for contacting and coordinating access needs of property owners. The Contractor shall contact property owner in regard to the elimination of vehicular access for more than twelve (12) consecutive hours. The property owner shall be contacted at least twenty-four (24) hours in advance of such access closure.

Prior to the preconstruction conference, the Contractor shall submit a written plan for providing and maintaining contract supervision through the life of the contract. This plan shall include names and phone numbers of the individuals responsible for the work as well as after-hours or emergency contacts.

13. Acceptance of Sanitary Sewer Construction

City of Superior personnel, or its representative, will inspect construction of sanitary sewer under this contract. Final acceptance of the sanitary sewer construction will be by the City of Superior Environmental Services Division of Public Works.

14. Sanitary Sewer Construction Requirements

This contract includes construction of sanitary sewer. All sanitary sewer construction shall be in accordance with *Standard Specifications for Sewer and Water Construction in Wisconsin*, Sixth Edition, December 22, 2003, as amended by Addenda 1 and 2; hereinafter referred to as *Wisconsin Water and Sewer Specifications*. Modifications or clarifications made within this specification supersede the *Wisconsin Water and Sewer Specifications*.

Separation distances between water mains and sanitary or storm sewer shall comply with Wisconsin Administrative Code s. NR 811.74. The lateral separation distance between water main and sanitary or storm sewer shall be a minimum of eight (8) feet. Water mains crossing beneath sanitary or storm sewer shall be laid to provide a minimum separation of eighteen (18) inches between the top of the water main and the bottom of the sewer. When water mains pass above a sanitary or storm sewer a minimum separation of six (6) inches shall be provided.

Service Laterals

The location and size of existing sanitary sewer as shown on the plans are approximate. Actual locations and size may vary from what is shown. Where abandoned sanitary sewer is encountered, the Contractor shall notify the City of Superior Environmental Services Division of Public Works.

When connecting to existing sanitary sewer or sanitary services, give the City of Superior Environmental Services Division of Public Works a minimum twenty-four (24) hour notice prior to temporarily suspending sewer service. Obtain approval from the Engineer prior to taking the sewer out of service. Disrupt service during the time of day when the least inconvenience shall be caused to the owner and kept to a minimum amount of time.

Submittals

Submit Shop Drawings in triplicate for

- a. Each manhole.
- b. All proposed classes and sizes of pipe
- c. Endwalls (Apron Endwalls or Flare Sections)
- d. Inlets or catch basins
- e. Increasers
- f. Reducers
- g. Bends
- h. Wyes or Tees
- i. Castings

Submit Certificates of Compliance from manufacturers certifying that materials meet reference specifications:

ANSI/AWWA:

- j. C104/A21.4 - Standard for Cement - Mortar Lining for Ductile Iron Pipe and Fittings
- k. A21.11 - Standard for Rubber - Gasket Joints for Ductile Iron Pressure Pipe and Fittings

- l. C151/A21.51 - Standard for Ductile Iron Pipe Centrifugally Cast
- m. C153/A21.53 - Standard for Ductile Iron Compact Fittings, 3-inch through 16-inch
- n. C906 - Standard for HDPE Pipe

ASTM:

- a. A48 - Specification for Gray Iron Castings
- b. A74 - Specification for Cast Iron Soil Pipe and Fittings
- c. C76 - Specification for Reinforced Concrete Pipe
- d. C361 - Specification for Reinforced Concrete Low Head Pressure Pipe
- e. C425 - Specification for Compression Joints for VCP and Fittings
- f. C478 - Specification for Precast Reinforced Concrete Manhole
- g. C564 - Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
- h. D2321 - Recommended Practice for Installation of Flexible Thermo-plastic Sewer Pipe
- i. D3034 - Specification for PVC Sewer Pipe and Fittings
- j. D3261 - Specification for Butt Fusion Polyethylene Plastic Fitting for PE Plastic Pipe
- k. F477 - Elastomeric Seals for Joining Plastic Pipe
- l. F714 - Specification for Polyethylene Plastic Pipe Based on Outside Diameter

Service Connections

Submit record of service connections weekly to Engineer. Record the location, size, length, and number of bends on services on a record drawing. Measure sanitary services locations from the closest downstream manhole.

15. Disposal of Waste Materials

The City of Superior has the City Municipal Services Building site at 2301 Hill Avenue where asphaltic and concrete (without rebar) materials may be disposed of by the Contractor at no cost. For materials submitted to the City at this location, concrete and asphalt must be clean and free of contamination and both must be separated and placed in different piles. Advanced notice of one day must be given; other arrangements may be made in advanced with the City's Municipal Service Building at (715) 394-0244. Materials will be accepted at the City's sole discretion; any loads not accepted shall be disposed by the Contractor at his sole cost and expense in accordance with all applicable laws and regulations. The City may also have sites available for disposal of common excavation depending on volume and material type. All sites to be used for the disposal of earthen materials must be reviewed by the City and approved prior to the placement of the material.

16. Removing Pavement, Curb & Gutter, and Concrete Sidewalk

Supplement section 204 of the standard specifications as follows:

Do not use existing concrete pavement, curb and gutter, and sidewalks removed under this contract as base aggregate open graded or select crushed material.

Sawcut concrete pavement and concrete sidewalk into pieces no larger than 8 foot by 8 foot and remove using methods approved by the engineer. Payment of the full depth saw cut will be paid for under the bid item Slicing Concrete. During the saw cutting and concrete removal, take extreme care to not damage the adjacent trees or tree roots.

17. Sealing Pipes, Item 204.0280

Complete the work in accordance with the requirements of Section 204 of the WI DOT Standard Specifications except as hereinafter provided:

Unless otherwise specified, bulkheads shall be constructed to form a watertight eight (8) inch thick wall of mortar and of either clay brick or concrete brick.

18. Abandoning Sewer, Item 204.0291.S

A Description

This work involves abandoning an existing sewer by filling it with cellular concrete in accordance to the pertinent requirements of Sections 204 and 501 of the Standard Specifications, as shown in the plans, and as hereinafter provided.

B Materials

Provide cellular concrete meeting the following specifications: one (1) part cement, one (1) part fly ash, eight (8) parts sand, or an approved equal, and water. Provide cement meeting the requirements of 501.2.1 of the Standard Specifications for Type 1 Portland Cement, sand meeting the requirements of 501.2.5.3, and water meeting the requirements of 501.2.4.

C Construction

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

D Measurement

The City will measure Abandoning Sewer in volume by the cubic yard in accordance to Subsection 109.1.3 of the Standard Specifications.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
204.0291.S	Abandoning Sewer	CY

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

19. 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.

<http://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 1500 feet, passing lanes less than 1500 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 in accordance with 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 in accordance with:

Method 1: Maximum dry density in accordance with AASHTO T-180, Method D, with correction for coarse particles and modified to require determination of Bulk Specific Gravity (Gm) in accordance with AASHTO T 85. Bulk Specific Gravities determined in accordance with 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) in accordance with 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) in accordance with 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 1/4-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:
<http://wisconsin.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/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 7500 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 1500 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 in accordance with C.2.7.
- (2) Add separate lots for passing lanes and individual ramps greater than 1500 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 in accordance with 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 3000 tons in accordance with 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 3000 tons in accordance with 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/ft³, 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 in accordance with 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 in accordance with 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 in accordance with 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/ft³ 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/ft³, 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/ft³ 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/ft³, 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/ft³ 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/ft³, 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 in accordance with 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)

20. Concrete Steps

Supplement standard spec 602.5.2 with the following:

Removal of existing steps, including any reinforcement and disposal of the materials is considered incidental to the placement of Concrete Steps.

Railing if required to be installed per the plan details, including any reinforcement and connection materials is considered incidental to the placement of Concrete Steps.

21. Inlets and Manholes

Complete work in accordance with the requirements of Section 611 of the WI DOT Standard Specifications, except as hereinafter supplemented:

When connecting an existing storm sewer or pipe underdrain to a new inlet or manhole, cut, or extend the existing pipe or new underdrain to fit into the new structure. Cutting the structure or pipe or underdrain, any additional pipe length or connections required are considered incidental to the new structure.

Elastomeric waterproofing sealer shall be applied to the frame and chimney of all inlets and storm manholes as per the following specifications. Elastomeric waterproofing sealer is considered incidental to the new structure.

Elastomeric waterproofing sealer shall be a single component moisture curing polyurethane applied to form a continuous membrane, as detailed in Section 8.42.1 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition with Addendum No.1 and No.2.

All masonry work shall be cured a minimum of twenty-four (24) hours prior to applying an elastomeric waterproofing seal. All surfaces shall be cleaned and primed in accordance with the manufacturer's recommendation.

Elastomeric waterproofing sealer shall be applied so that it forms a continuous membrane, 100-mil thick, extending from a point four (4) inches below the chimney to a point two (2) inches above the frame flange. The Engineer reserves the right to require bond breaker (duct tape) be placed completely around the manhole circumference and centered over the mortar joint between the frame and chimney or cone.

22. Adjusting Manhole Covers, Item 611.8110

Complete work in accordance with the requirements of Section 611 of the WI DOT Standard Specifications except as hereinafter supplemented:

611.2 Materials

Elastomeric waterproofing sealer shall be a single component moisture curing polyurethane applied to form a continuous membrane, as detailed in Section 8.42.1 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition with Addendum No.1 and No.2.

611.3 Construction

611.3.7 Adjusting Manhole Covers

All masonry work shall be cured a minimum of twenty-four (24) hours prior to applying an elastomeric waterproofing seal. All surfaces shall be cleaned and primed in accordance with the manufacturer's recommendation.

Elastomeric waterproofing sealer shall be applied so that it forms a continuous membrane, 100-mil thick, extending from a point four (4) inches below the chimney to a point two (2) inches above the frame flange. The Engineer reserves the right to require bond breaker (duct tape) be placed completely around the manhole circumference and centered over the mortar joint between the frame and chimney or cone.

Adjacent backfill shall not be placed within twenty-four (24) hours of applying the sealer.

The manhole frame shall be set at the elevation given on the plan or, when no such elevation is given, they shall be set as follows:

1. Within A Traveled Roadway Within a traveled roadway or in the shoulders of a highway, the top of the manhole frame shall be set ½-inch below the shoulder or pavement surface.
2. In Other Locations In other locations, the top of the frame shall be set at the proposed or established grade, whichever is higher.

23. Insulation Board Polystyrene, 4-Inch, Item 612.0902.S

A Description

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

B Materials

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

Delete flammability requirement.

B.1 Certification

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

C (Vacant)

D Measurement

The department will measure Insulation Board Polystyrene, 4-Inch by area in square yards of work, completed and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
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Payment is full compensation for all excavation; and for furnishing and placing the insulation board.

stp-612-005 (20030820)

24. 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. 2000 lb per 4 ft. width (ASTM D638)

Ultimate Tensile Strength: Avg. 3000 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)

25. Hydroseeding

Complete work in accordance with the requirements WI DNR Technical Standard 1059. Seed Mixture shall be No. 40, or as detailed in the plans, as referenced in Section 630 of the WI DOT Standard Specifications. Seed shall be sown using hydroseed methods.

26. Landscape Planting Surveillance and Care Cycles.

If the care specialist fails to perform any of the required care cycles as specified in standard spec 632.3.19.1, the department will assess daily damages in the amount of \$750 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.

The plant establishment period shall be two growing seasons.

27. Inlets 5-FT Diameter, Item SPV.0060.01; Inlets 6-FT Diameter, Item SPV.0060.02; Inlets 7-FT Diameter, Item SPV.0060.03; Inlets 8-FT Diameter, Item SPV.0060.04

A Description

This work shall consist of constructing reinforced concrete manholes and inlets.

B Materials

The materials furnished and used in the work shall conform to Subsection 611.2 of the Standard Specifications.

C Construction

The construction methods employed in the work shall conform to Subsection 611.3 of the Standard Specifications.

D Measurement

The department will measure Inlets (size) Diameter as each individual inlet acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Inlets 5-FT Diameter	Each
SPV.0060.02	Inlets 6-FT Diameter	Each
SPV.0060.03	Inlets 7-FT Diameter	Each
SPV.0060.04	Inlets 8-FT Diameter	Each

Payment is full compensation for providing materials, including masonry, conduit and sewer connections, steps, and other fittings; for excavating, backfilling, and for cleaning out and restoring the site; except that the department will pay for covers, including frames, grates and lids separately.

28. Utility Line Opening, Item SPV.0060.05

A. Description

This special provision describes excavating to uncover utilities for the purpose of determining elevation or location and potential conflicts as shown on the plans or as directed by the engineer.

B. (Vacant)

C. Construction

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

Perform the utility line openings 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. Give the engineer a minimum of three working days once utility line opening information is received to review all relevant design information prior to proposed utility construction. Where utilities are within 6 feet of each other at a potential conflict location, only one utility line opening will be called for. In these cases, a single utility line opening will be considered full payment to locate multiple utilities. Utility line openings include a trench up to 10 feet long as measured at the trench bottom, and of any depth required to locate the intended utility.

Approve and coordinate all utility line openings with the engineer. Notify the utility engineers or their agents of this work a minimum of three days prior to the work so they may be present when the work is completed.

Replace pavement over utility line opening trenches which are within the staged traffic area as directed by the engineer. Replace pavement and open to traffic within 24 hours of the excavation.

D. Measurement

The department will measure Utility Line Opening 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.0060.05	Utility Line Opening	Each

Payment is full compensation for the excavation required to expose the utility line; backfilling with existing material removed from the excavation; compacting the backfill; restoring the site; and for cleanup.

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

29. Tree Planting, Preservation, and Protection, Item SPV.0060.06

A Description

The City of Superior acknowledges the importance of trees to the community's health, safety, welfare, and tranquility. Trees increase property values, provide visual continuity, provide shade and cooling, decrease wind velocities, control erosion, conserve energy, reduce stormwater runoff, filter airborne pollutants, reduce noise, provide privacy, provide habitat and food value, and release oxygen. **No trees will be removed within the project limits without the approval of the engineer.**

Definition of Terms

A. Tree Protection Zone:

A specified area above and below ground and at a given distance from the trunk set aside for the protection of a tree's roots and crown to provide for the viability and stability of a tree to be retained where it is potentially subject to damage by development. Tree Protection Zone shall be determined to be the diameter of the tree trunk measured in inches at chest height multiplied by 1.5 and expressed as feet. That distance is measured from the trunk of the tree creating a radius around the tree as shown in the details within the Tree Protection Zone Details.

B. Materials

Trees and other vegetation are to be protected and preserved during construction. Trees and other vegetation will be properly protected during construction to maximize their survival rate. In order to achieve an appropriate balance between protecting trees and allowing necessary construction, the practices that follow will be employed.

All trees within and adjacent to the project limits shall be protected and maintained against damage during construction. All workers on the site shall be educated in tree preservation practices. Tree protection devices shall be placed before material deliveries, excavation, or grading begins and is to be maintained in good repair for the duration of the construction work, unless otherwise directed. Tree protection shall remain until the landscape restoration work begins.

C. Construction

Protection of trees during construction: Protection of existing trees will be accomplished with the establishment of the Tree Protection Zone (TPZ) for each tree and using tools such as fencing placed along the construction limits, carefully choosing the style of machinery the specifications allow to travel behind the existing curb and gutter, shoring, construction boxes, and protective ground sheeting. However, it will not be limited to just these tools. The Contractor can use other tools to protect the trees and landscaping at their discretion and as approved by the Engineer, such as hiring a commercial arborist to advise how to best protect the trees. If this arborist should contest a damage assessment performed by the Engineer, the City will consider the arborist's argument, but the Engineer's ultimate decision will prevail.

Handheld operating tools, air-excavation or other non-mechanical methods are encouraged to be used for removal or construction activities within the Tree Protection Zone.

Prior to any site work, all trees to be preserved must be protected, and maintained, in accordance with the Tree Protection Zone Details.

Tree Protection

Trees in the area of disturbance and in the vehicle access route are to be protected by fencing in the following manner:

No material or construction equipment shall be stored within the tree protection zone.

No protective devices, signs, utility boxes or other objects shall be nailed to the trees on the site.

Tree protection fencing shall be erected and approved by the Engineer at least 24 hours before construction begins.

Grade Changes

Grade cuts shall be minimized or eliminated within the tree protection zone.

Areas within the tree protection zone disturbed by construction activity shall be mulched with a 2-3" deep layer of shredded bark mulch as temporary protection of roots. Mulching shall be done within 4 hours of disturbance.

Trenching and Tunneling

Trenching shall be done outside the tree protection zone. Trenchless techniques shall be employed within the tree protection zone.

Pruning of branches shall be done under the requirements and direction of the engineer.

Bridging Roots

One option for working near trees with large root issues is to bridge over the existing roots. This is done by either supporting the raised section with concrete pillars near the roots or increasing the base layer over the root growth area. When increasing the base course material; course sand or pea gravel must be used along with a thin layer of foam board. Any bridged sections must still maintain ADA allowed slopes of 1:20. It is anticipated bridging roots will be required behind the sidewalks and on side streets.

Root Grinding

When dealing with a larger root (2" diameter or larger) it is better to grind the root rather than fully sever the root. This is done by either a stump/root grinder, chainsaw or debarking tool. Roots must maintain at least 1/3 of their original diameter when grinding roots. When possible, apply a layer or ridged foam or pipe insulation between the shaved root and the new concrete surface to allow for roots to callus. Any work on a root with a diameter greater than 2" must be approved by the Engineer prior to commencement. No root grinding or cutting is permitted within 4 feet from the face of the tree.

Clean Root Cutting

Root cutting shall be a **LAST RESORT** option when doing construction around trees .Where a trees root systems interfere with the construction of curb and gutter, drain tile, or other utilities; Contractor may address the roots in accordance with the following:

Cleanly cut tree roots as directed by the Engineer.

Immediately and cleanly cut damaged and exposed roots. Cut back damaged roots of trees designated for protection to sound healthy tissue and immediately place topsoil over the exposed roots. Immediately cover root ends exposed by excavation activities with 6 inches of topsoil as measured outward from the cut root ends No cutting of roots larger than 2" will be allowed unless approved by the Engineer. No root grinding or cutting is permitted withing 4 feet from the face of the tree.

D. Measurement

The department will measure Tree Root Preservation and Protection by the Each regardless of tree protection zone size. Measurement will be considered complete when excavations in the Tree Protection Zone are completed.

E. Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.06	Tree Root Preservation and Protection Type 1	Each

Payment is full compensation for providing all labor, equipment, and materials necessary to protect the trees and roots to the level as specified in the plans and specifications. Payment will include protective construction fencing for each tree. All protection shall be inspected by the Engineer prior to start of construction.

F. Schedule of Damages

Damages to trees will be measured according to the following table.

SCHEDULE OF DAMAGES (PER TREE OR PRIVATE LANDSCAPING FEATURE)			
TYPE OF DAMAGE	LEVEL OF DAMAGE		
	LOW	MODERATE	SEVERE
Trees			
Above Ground			
<i>Canopy</i>			
Branches			
Less than 2 inches diameter	Each		
Greater than 2 inches and less than 4 inches diameter.		Each	
Greater than 4 inches diameter			Each
<i>Trunk Stem Circumference Damage</i>			
\$200/sf bark loss			
Below Ground			
<i>Root Zone</i>			
Construction within TPZ			
Material storage	Each		
Equipment storage	Each		
Soil Compaction	Each		
<i>Root Cutting or Grinding</i>			
Unapproved grinding or damage to 2/3 or more of a root within 4 feet from the face of the tree.			Each
Unapproved grinding or damage to 2/3 or more of a root with a diameter of 2" or greater.			Each

G. Schedule of Deductions

Deductions from the amount due to the Contractor for the tree and private landscaping protection item will be calculated in accordance with the following table.

Level of Damage	Damage Fee ¹
Trees	
Low of all Types	\$200
Moderate of all Types	\$325
Severe of all Types	Greater of 100 times the diameter of the tree in inches expressed in dollars or \$1000

Should the Contractor accrue damages; the engineer will maintain a running account of those damage fees throughout the project. Damage fees will be assessed against the contractor in the last application for payment. The Engineers running damage account will be available to the Contractor for review upon request.

30. Locate and Replace Existing Centerline Monuments, Item SPV.0060.07

A Description

This special provision describes locating existing street centerline monuments prior to ground disturbing activities within the construction limits of Hammond Avenue from N 28th Street to Belknap Street and connecting sideroads and replacing existing centerline monuments that are determined to be lost or disturbed by construction operations, as directed by the engineer, and as hereinafter provided.

This provision does not relinquish the contractor of their responsibility under standard spec 107.11.

B Materials

Provide replacement centerline monuments that are one-inch inside diameter by 18-inch long Number 6 rebar. Engineering monuments may be placed at new locations if existing monumentation was insufficient, or if design changes create new PI, PC, PT, or centerline intersections. Generally, rebar placed in the road surface will be set countersunk but visible on surface. Field notes and a "Survey Monument Record" will be used to document the visit.

C Construction

Prior to ground disturbing construction activity, research, locate and document centerline monuments located within the roadway and temporary easement areas. Tie the located centerline monuments in with coordinates accurate to 1:3000. Centerline monuments that fall within construction limits and are expected to be disturbed or destroyed will generally be removed prior to and then replaced upon project completion.

Prepare a "City of Superior Survey Monument Record" form documenting the location and type of monument found and placed. Provide a copy of the Survey Monument Form to the engineer within 14 days of locating the existing centerline monuments.

All work under this item is to be performed by, or under the direction of, a professional land surveyor registered in the State of Wisconsin.

After ground disturbing construction is completed, centerline monument locations will be verified. Replace or reset as necessary, any centerline monuments that are lost or disturbed.

D Measurement

The department will measure Locate and Replace Existing Centerline Monuments as each individual unit, in which a unit is one centerline monument, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.07	Locate and Replace Existing Centerline Monuments	EACH

Payment is full compensation for furnishing all research, field survey, locating, and recording of field data necessary to locate and determine coordinates for existing Centerline monuments within the construction limits prior to construction; for replacing or resetting, as necessary, Centerline monuments that are lost or disturbed from their original location; for furnishing Centerline monuments; for furnishing a Professional land surveyor; and for preparing, annotating and delivering the Survey Monument Record form to the engineer.

31. Locate and Reset Property Corners, Item SPV.0060.08

A Description

This special provision describes setting property corners that have been damaged or destroyed during construction operations, which were unavoidable. Note that this item does not apply to items damaged due to negligence or relieve the contractor of other responsibilities as outlined in standard spec 107.11.

B Materials

- Removed private survey markers will be replaced in their found location using the same monument that was found, located, removed, and stored for this purpose. Field notes will document the visit and be placed in the project file, but no additional forms will be required.

C Construction

Prior to ground disturbing activities and initial field survey activities, it is recommended that Contractor provide a "Survey Marker Questionnaire" to all property owners within the project. Disclosed survey

markers inside the construction limits will be located, documented, tied out, tagged, and removed.

Private Survey monuments disclosed by landowners that would be disturbed or destroyed by construction activities near the Right-of-Way line will be removed prior to construction and replaced upon completion.

When drive-in monuments are to be used, drive them into the ground with the top flush with the surface. In unstable soils, increase the depth as directed by the engineer to obtain a suitable foundation for the monument. No additional compensation will be made for the increased depth of the monument.

D Measurement

The department will measure Reset Property Corners in place by each individual unit, in which a unit is one property corner, 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	Reset Property Corners	EACH

Payment is full compensation for furnishing all survey work necessary to reset property corners; and for furnishing, placing, and adjusting property corners.

32. Manhole Covers Type J-Special, Item SPV.0060.09

Complete work in accordance with the requirements of Section 611 of the WI DOT Standard Specifications except as hereinafter supplemented:

611.2 Materials

Manhole covers to be 24-inch as detailed in the plans on the City of Superior Standard Storm and Sanitary Frame detail.

33. Point Repair by Chemical Grout, Item SPV.0060.30; Cover Interceptor Manhole Opening, Item SPV.0060.31

A Description

Summary

- A. Chemical grout point repairs in areas of excessive groundwater infiltration that may interfere with installation and curing of Geopolymer lining.
- B. Chemical grout point repairs to eliminate groundwater infiltration into manholes, sanitary sewer, and sanitary sewer service connections.
- C. Covering of inactive manhole opening from inside interceptor pipe in a manner suitable to allow lining through this pipe segment.

References

- A. ASTM:
 1. F2304-03 Standard Practice for Rehabilitation of Sewers Using Chemical Grouting
 2. F2414-04 Standard Practice for Sealing Sewer Manholes Using Chemical Grouting.
 3. F2454-05 Standard Practice for Sealing Lateral Connections and lines from the mainline Sewer Systems by the Lateral Packer Method, Using Chemical Grouting.

Submittals

- A. Information on the chemical grout compounds that will be used, product data sheets when available, the installation method, and equipment.
- B. Where man entry is the method of grouting installation, Contractor shall provide confined space entry safety plan.
- C. Contractor selected means and methods to allow for lining through manhole opening that is only accessible from inside the interceptor pipe.

B Materials

Chemical Grout

- A. Grout materials shall have the following characteristics and shall be selected and applied consistent with the manufacturer's recommendation for each specific application.
 - 1. While being injected, the grout must be able to react/perform in the presence of groundwater.
 - 2. Grout shall have ability to increase grout mix viscosity, density and gel strength by increased concentration of constituents or the use of approved additives.
 - 3. The cured grout must withstand submergence in water without degradation.
 - 4. The resultant grout formation must be homogeneous and prevent the infiltration of ground water through the pipe joint.
 - 5. The grout must not be biodegradable.
 - 6. The cured grout should be chemically stable and resistant to organics found in sewage.
 - 7. Residual grout shall be easily removable from the sewer line to prevent blockage of the sewage flow.
- B. Water based chemical grout products and manufacturers.
 - 1. DeNeef Hydro Active Multi Gel NF.
 - 2. Avanti AV-100.
 - 3. Avanti AV-118.
 - 4. Or approved equal.
- C. Acrylate based grout products and manufacturers.
 - 1. DeNeef AC-400.
 - 2. DeNeef Gelacryl SR.
 - 3. Or approved equal.
- D. Urethane grout product information
 - 1. Final reaction products stable, non-biodegradable, flexible gel, impermeable to water at pressures up to 15 psi.
 - 2. Use gel control agent to control curing time.
 - 3. Use root inhibitor (50% active dichlobenil) when roots are present in manholes.

Application Equipment

- A. Provide equipment needed to apply the chemical grout in pipe and manholes.
- B. The chemical grouting system shall allow sealing materials to be pumped through instant reading, controlled flow meters and then through hoses to an injection probe. Contractor shall drill ports in the joints as required to allow injection probe access. The chemical grouting system shall be integrated so that proportions and quantities of materials and pressures for chemical grout can be instantly monitored and regulated in accordance with the type and size of defect, percentage of voids being filled, type of soil surrounding the pipe segment and the rate of flow of the chemical grout in relation to the back pressures. The system shall be capable of conducting the pressure tests.
- C. Obtain City's approval for use of alternate chemical grouting equipment prior to initiating the work.

C Construction

General

- A. Point Repair Cleaning
 - 1. Prior to the application of chemical grouting materials, clean the pipe segment(s) and manholes.
- B. Pre-Point Repair Inspection
 - 1. After cleaning the pipe and prior to application of chemical grouting materials, inspect the pipe segments and manholes.
 - 2. After application of chemical grouting materials, inspect the pipe segments and manhole structures.
- C. Chemical Grout Formulation
 - 1. Mix each batch of chemical grout according to the manufacturer's published directions and requirements.
- D. Chemical Grout Checks

1. Check and record the characteristics of each batch of grout after it is mixed and before it is used in a repair. Monitor both induction period and chemical grout characteristics for each packer daily. If acceptable chemical grout characteristics do not exist, adjust the chemical grout or discard the batch.
 2. The City will have the right to request an adjustment of the chemical grout or that the batch is discarded.
- E. Chemical Grout Application
1. Drill holes in brick, mortar and concrete surfaces. Use injection packers placed in the pre-drilled holes to ensure complete injection of grout around the area. Pumping equipment must be capable of attaining 1,000 psi.
 2. Watch for material to appear in surface cracks. After the material stops moving, drill another hole and repeat injection process. Return at least twice to previously injected ports and re-inject with more grout. Each port will be injected a total of at least three times.
 3. After completion of the grouting, the injection packers shall be cut off flush with the brick or concrete surface.
- F. Acceptance Testing
1. After the chemical grout has cured, conduct visual acceptance testing at each point repair using CCTV. Point repairs that fail the acceptance testing shall be repaired until the point repair meets acceptance testing criteria. Conduct the following acceptance tests at each point repair.
 - a. Visual Test
 - 1) With the City in attendance, use a CCTV camera to visually inspect the point repair. Acceptance of the visual test shall be attained when the City verifies a leak-free, uniform point repair.

D Measurement

Point Repair by Chemical Grout will be measured by each location authorized and acceptably grouted.

Cover Interceptor Manhole Opening will be measured by each location authorized and acceptably covered in a manner suitable for lining to be performed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.30	Point Repair by Chemical Grout	Each
SPV.0060.31	Cover Interceptor Manhole Opening	Each

Payment for Point Repair by Chemical Grout is full compensation to provide chemical grouting in locations as determined by the City. Payment shall constitute full compensation for all labor, materials, equipment, and incidentals needed to grout including the mixed chemical grout, point repair for grouting of pipe and manholes, and all items or tasks incidental thereto.

The unit price for Cover Interceptor Manhole opening shall constitute full compensation for all costs associated with providing an opening cover for **MH 3B0038** prior to lining as indicated on the Drawings and shall include, but not be limited to materials, installation, equipment, and all items and tasks incidental thereto.

34. Interceptor Manhole Lining, Item SPV.0060.32; SAPL 47"x66" Interceptor, Item SPV.0090.30; SAPL 46"x60" Interceptor, Item SPV.0090.31

A Description

Summary

- A. The Contractor shall perform geopolymer lining by either hand sprayed or spin cast, with a troweled finish onto existing brick sewers and brick sewer structures (manholes) required for the rehabilitation of the City sewers. Work is to be performed by a qualified and experienced contractor having appropriate equipment and significant documentable experience for similar types of work and shall be certified and licensed by the geopolymer lining system manufacturer.
- B. Section Includes:
 - 1. Provide Sanitary Sewer and Manhole Repair at all specified locations as shown on Drawings, including:
 - a. Cleaning the interior of manhole and sewer of loose bricks (or concrete), mineral deposits, grease and debris.
 - b. Grouting all leaking or structurally damaged areas.
 - c. Rehabilitation including the Application of High-Performance Chemical-Resistant coating to manhole and sewer interiors, including benches and manhole invert using Geopolymer coating.

Definitions

- A. DFT: Dry film thickness
- B. SAPL: Spray Applied Pipe Lining

References

- A. ASTM International, Inc. (ASTM):
 - 1. ASTM A 240/A 240M, Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
 - 2. ASTM C 109/C 109M, Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (using 2-in. or [50mm] Cube Specimens)
 - 3. ASTM C177-13, Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus
 - 4. ASTM C 321, Standard Test Method for Bond Strength of Chemically Resistant Mortars
 - 5. ASTM C 496/C 496M, Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens
 - 6. ASTM C 596, Standard Test Method for Drying Shrinkage of Mortar Containing Hydraulic Cement
 - 7. C 882, Standard Test Method for Bond Strength of Epoxy-Resin Systems Used with Concrete by Slant Shear
 - 8. ASTM C 923, Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals
 - 9. ASTM C 1244, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test Prior to Backfill
 - 10. ASTM D412, Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
 - 11. ASTM D522, Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
 - 12. ASTM D624-00(2012), Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
 - 13. ASTM D638-14, Standard Test Method for Tensile Properties of Plastics
 - 14. ASTM D792-13, Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
 - 15. ASTM D903-98(2010), Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
 - 16. ASTM D1248, Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable
 - 17. ASTM D2240-05(2010), Standard Test Method for Rubber Property - Durometer Hardness
 - 18. ASTM D4060-14, Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
 - 19. ASTM D4258-05(2012), Standard Practice for Surface Cleaning Concrete for Coating
 - 20. ASTM D4541, Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers

21. ASTM D4787-13, Standard Test Method for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Substrates
 22. ASTM D6866-12, Standard Test Methods for Determining the Biobased Content of Solid, Liquid, and Gaseous Samples Using Radiocarbon Analysis
 23. ASTM D7234, Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers
 24. ASTM E96/E96M-14, Standard Test Methods for Water Vapor Transmission of Materials
 25. ASTM F 593 – Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs
 26. ASTM F 1216 – Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
 27. ASTM F 2551 - Standard Practice for Installing a Protective Cementitious Liner System in Sanitary Sewer Manholes
 28. ASTM G14-04(2010)e1, Standard Test Method for Impact Resistance of Pipeline Coatings (Falling Weight Test)
 29. ASTM G95-07(2013), Standard Test Method for Cathodic Disbondment Test of Pipeline Coatings (Attached Cell Method)
- B. Center for Innovative Grouting Materials and Technology (CIGMAT):
1. CIGMAT Evaluation (UH 96-7) of Spectrashield Liner System for Wastewater Concrete and Clay Brick Facilities. University of Houston Department of Civil Engineering: December 1996
- C. National Association of Corrosion Engineers (NACE):
1. NACE Standard SP0188-2006, Discontinuity (Holiday) Testing of New Protective Coatings on Conductive Substrates
- D. Public Works Standards, Inc. (PWSI):
1. Standard Specifications for Public Works Construction, "the Greenbook" - 17th Edition, 2015.
 - a. Section 211-2, Chemical Resistance (Pickle Jar) Test
 - b. Section 500-2, Manhole and Structure Rehabilitation
- E. United States Department of Agriculture (USDA):
1. USDA Certified Biobased Products (USDA BioPreferred 7)
- F. United States Environmental Protection Agency (EPA)

Submittals

- A. Product Data: For each type of product indicated.
1. Submit Manufacturer's Product Data and Installation Instructions including substrate preparation, on-site quality assurance recommendations, list of all materials to be used.
 2. Detailed information regarding materials, chemical charts, and catalog data on all materials proposed for the lining at least 28 days before it is to be used for lining the pipeline.
- B. Materials and Equipment
1. Submit data sheets for key equipment and materials to be utilized.
- C. Certifications:
1. Manufacturer shall submit a letter of certification that the product meets or exceeds all technical and packaging requirements.
 2. Manufacturer shall submit original third-party verification that materials meet physical properties specified for design at 24hr and 28 days, minimally ASTM C-78, ASTM C-39 or C-109, ASTM C-882, and ASTM C-1090. Further Manufacturer shall submit original third-party verification of test data for ASTM C-666 testing for samples cured 28 day and subjected to 300 cycles.
 3. Manufacturer shall submit original third-party verification of material formulation via XRF (X-ray Fluorescence) data per ASTM-C114
 4. Submit Manufacturer's certifications that materials have been approved for the installation conditions shown on the Drawings and as specified herein.
 5. Manufacturers' product data for reinforcing fabric and installation instruction if required.
 6. Submit Manufacturer's Materials Warranty certificate.
 7. Submit Installer's warranty certificate.
- D. Qualifications:

1. The Contractor performing the work shall be fully qualified, experienced and equipped to complete this work expeditiously and in a satisfactory manner and shall be an approved installer of the geopolymer lining system as certified and licensed by the Manufacturer.
2. The Manufacture shall submit documentation and verifiable references for installation the proposed lining system in a minimum of 100 vertical linear feet for manhole qualifications.
3. The Manufacture shall submit documentation and verifiable references for installation the proposed lining system in a minimum of 5000 linear feet of large diameter (>36 inch) horizontal pipe for pipeline qualifications.
4. The Contractor shall submit a certified statement from the Manufacturer that he/she is a certified and/or licensed installer of the liner.
5. The Contractor shall also be capable of providing crews as needed to complete this work without undue delay.
6. The Geopolymer Installer must submit a work plan showing how the work shall be scheduled and coordinated.
7. The Owner reserves the right to approve or disapprove the Contractor, based on the submitted qualifications.

E. Design:

1. The contractor shall submit a detailed design calculation with supporting assumptions and drawings for the geopolymer liner system thickness after field verification of pipe dimensions, pipe depth, water table which shall be stamped by a Licensed Structural Engineer in the State of Wisconsin for each installation location and size from manhole to manhole.
2. Design of the Geopolymer thickness shall conform to the requirements listed in the Geopolymer Liner Design section.

F. Work Plan

1. The Contractor shall submit a work plan with the construction scheduled, the proposed method, installation procedure, flow control plan, quality control plan.
2. The contractor shall submit per location a sketch of the project area showing the required staging, storage area, access points and traffic impacts.
3. The contractor shall submit per location design and proposed means and methods of performing the repairs, sewer drying plan, bulkheading, rehabilitation, and installation of the geopolymer liner system and any required temporary bracing signed and sealed by professional engineers and structural engineers licensed in the State of Wisconsin.
4. The contractor shall submit per location, a health and safety plan, a confined spaces safety plans and an emergency procedure plan.
5. The contractor shall submit per location a flow control and pumping / bypass plans. Details shall be provided describing protection of the completed work from flows, partial completion needed for staging of the work, and any limitations needed to protect the work from anticipated storm flows. The bypass plan shall include the amount of flow being diverted. The plans need to be signed and sealed by professional engineers licensed in the State of Wisconsin.

G. Quality Control Plan:

1. The Contractor shall submit a per location Quality Control Plan for the work which identifies the staff responsible for QC inspections as well as the testing frequency and forms on which the QC data will be recorded. The QC Plan shall be per location:
 - a. Method to verify applied thickness during installation.
 - b. Field measurement of cured liner thickness.
 - c. Physical sample of plastic tab thickness indicator to be used.
 - d. Environmental conditions (moisture, temperature, etc.) which would affect the work.
 - e. Date, time and work inspected within the report.
 - f. Material properties including mixing proportions, application rate and material temperatures.
 - g. Certifications of QC staff and independent testing laboratory.

H. Site Specific Health and Safety Plan.

1. The Contractor must submit a site specific Health and Safety Plan in accordance with OSHA to the Engineer. Plan requirements are as follows:
 - a. The site specific Health and Safety Plan must be prepared by an experienced Safety specialist and must include work by General and all Sub Contractors.
 - b. Include description of scope of work to be performed.
 - c. Include description of safety hazards to be encountered.

- d. Include plan for mitigation of each safety hazard.
 - e. Include plan for dealing with emergencies including location of emergency facilities and emergency contacts.
 - f. Include employee certifications/training.
 - g. Describe facilities to be provided for safe means of access and egress to and from all points of work.
 - h. Identify Contractor personnel that will serve as a dedicated on-site rescue team. Contractor must not rely on the City of Superior Fire Department or any other persons other than the Contractor's personnel to provide rescue services.
- I. Field inspection and, field quality control and QA/QC testing reports.
- 1. Three (3) copies of pre and post-rehabilitation televising (CCTV) reports.
 - a. The Contractor shall be responsible for all costs incurred by the City to correct situations related to Contractor's failure to properly clean sanitary sewer structures, and for Contractor's work creating obstructions in the system, including private services. A minimum charge of \$1,750 per incident will be deducted from the money due or coming due to the Contractor. If labor and equipment charges are greater than \$1,750, the actual costs will be deducted.
 - b. Televising for pre-rehabilitation shall prove that the Contractor has successfully sealed all active leaks, removed all mineral deposits and removed all debris from manhole or sewer section. Pre-rehabilitation televising is to be submitted and approved prior to commencing lining of each manhole or sewer section.
 - c. Televising for post-rehabilitation shall be submitted twice. Once for post-grouting and once for post-lining of the manholes or sewer sections.
 - d. After completion of manhole and sewer rehabilitation, the contractor shall submit a manhole and sewer inspections using PACP/MACP format to the extent possible to illustrate the completed work. This submittal shall be in color digital copy reports (PDF), and on a portable digital storage device (such as an external hard drive, or a thumb drive) containing videos, inspection logs and PACP/MACP reports.
 - e. The Contractor shall be required to perform annual visual inspections for 2 years following the completion of the manhole and sewer rehabilitation. Any defects found in the liner shall be repaired at no cost to the City. A written report of the condition of each rehabilitated manhole or sewer section shall be prepared after each inspection.
 - 1) The final inspection in this 2-year post-rehabilitation period shall include a video inspection for all manholes and sewer sections using PACP/MACP formats. A written report of the condition of each rehabilitation manhole and sewer section shall be prepared following the final inspection. All costs for inspections shall be included in the bid price.

Quality Assurance

- A. Comply with standards listed in References of this Section.
- B. Regulatory Requirements:
 - 1. Work shall be done in accordance with applicable state and local codes, rules, and ordinances.

Handling and Delivery of Materials

- A. Deliver materials in the original manufacturer's sealed containers; identify each container with material name, date of manufacturer and lot number. Accept delivery of material only in an undamaged condition; immediately remove damaged and otherwise unsuitable material from the Project site when so determined.
- B. Store materials to prevent damage to containers; protect and heat or cool material storage location to maintain temperature ranges recommended by coating manufacturer.

Project Conditions

- A. View Site prior to bid opening to determine obstructions or site conditions which may affect Work.
- B. The sewer lines have been televised by the City. The CCTV inspection documentation can be requested by the Contractor.

- C. Provide for continuity of sanitary sewer service to each facility connected to the affected sections and ensure no sewage backup to private property.
- D. Sewer service lines to individual users may be disconnected for a period not to exceed 8 hours on any day from 9 a.m. to 5 p.m.
- E. Notice to residential properties must be given a minimum of one day in advance. Notice to commercial or industrial properties must be given a minimum of two days in advance. Additional notice shall be given to properties at the discretion of the Engineer. The contractor shall attempt to contact each property owner; a door hanger shall be given to all residents. See Article 1.08.K of this Section for door hanger information.
- F. Commercial or industrial properties may require Contractor to perform sewer service disconnection while businesses are closed.
- G. Cleaning of pipelines downstream from businesses suspected to produce grease shall be inspected by Contractor prior to lining. Additional cleaning shall be performed at no additional cost to the City.
- H. Ensure manholes are accessible for Work.
- I. Provide traffic control plan, approved by Engineer and City.
- J. Provide necessary temporary conveyance of sanitary flows.
- K. Door Hanger for notification to properties for interruption of service. Information required to be present on door hanger:
 - 1. A header stating "City of Superior Sanitary Sewer Rehabilitation Project"
 - 2. Date and time period of interruption.
 - 3. The text "The sanitary sewer system your property is connected to will be TEMPORARILY OUT OF SERVICE on the above date and time period. Your cooperation during this time period is greatly appreciated, PLEASE: Limit Toilet Use. REFRAIN FROM: Showering/Baths and Washing clothes and dishes as this will impact the work done on the sewer main and could cause a backup into your home."
 - 4. Name, address and phone number of Contractor's office.
 - 5. Name and mobile phone number of site representative of Contractor.
 - 6. The text "A resin odor may be present outside while this work is performed. **MAKE SURE THAT all toilets, shower, sink, and floor drains have water in them or this odor will enter your home**."
 - 7. The text "All work dates and times are subject to change"
- L. Keep City advised of work locations at all times.
- M. Ambient Conditions:
 - 1. Temperature and Humidity:
 - a. Apply coatings per Manufacturer's recommendations.

Geopolymer Liner Design

- A. Distributed Beam Load over a Partial Ring Equation
 - 1. The minimum liner thickness that shall be calculated using the distributed beam load over a partial ring model. This design model is applicable for circular, elliptical, egg shaped and arch sewer shapes. The liner thickness shall consider a 50-year design for the specified applied loads and calculated using the following equation and design parameters:

$$t = \sqrt{\frac{0.0744 Q_T r^2 N}{S_F c}}$$

Where:

t = Minimum Liner Thickness, inches

Q_T = Total External Load as calculated from ASTM F 1216-09 for fully deteriorate pipe cases for soil and hydraulic loads with the addition of appropriate live load standards as specified, psi

r = Radius of the interior crown of the pipe, inches

N = Safety Factor

S_F = The 28 day Flexural Strength or Modulus of Rupture, psi.

c = Ovality Reduction Factor as defined in ASTM F 1216-09

The thickness of the geopolymer liner furnished shall be designed by the Contractor and shall not be less than 1.5 inches.

B. Design Parameters

Parameter	Requirement
Deterioration level	Fully deteriorated condition.
Design Life	50 years
Safety Factor	2.0
Ovality	For noncircular and irregular shape sewer, the calculation shall take into consideration any additional consideration due to noncircular shape.
External Hydrostatic Pressure	Corresponding to ground water table at ground surface.
External Earth Load	Depth to be used is the highest ground cover for that manhole-to-manhole section. Calculations for the thickness of the geopolymer liner shall be furnished by the Contractor shall include allowances for deflection, shrink-back, stiffness, ring bending and buckling, and shall have sufficient water tightness, and structural strength to support all dead loads, live loads, and groundwater load.
Live Load	AASHTO HS-20 or the actual live load that exists at the liner location, whichever is greater. Sewers under railroad property shall be designed for railroad loads of Cooper E-80.
Soil Weight	120 lb / cy
GP Liner Flexural Modulus used for design	See minimum geopolymer liner material requirements.
GP Liner Flexural Strength used for design	See minimum geopolymer liner material requirements.

C. Geopolymer Structure Design

The minimum liner thickness that shall be calculated based on Allowable Compressive and Buckling Strength (Maximum of 3 Design Checks)

$$t = \frac{P * D * N}{2\sigma_{cl}}$$

$$t = \left(\frac{P * D^3 * N}{2E_L} \right)^{\frac{1}{3}}$$

Where:

t = Minimum Liner Thickness, inches

P = Total Soil and Hydraulic Load

D = Inside diameter of manhole

N = Safety Factor 2.0

σ_{cl} = Long Term Compressive Strength

E_L = Long Term Elastic Modulus

Warranties

- A. General Contractor: Provide a written warranty and bond against defects in materials for a period of 2 years from the date of Substantial Completion. Provide a written warranty and

bond against defects in application for a period of 2 years when material is applied at minimum specified thickness or greater.

1. Material defects, if any, will result in replacement of materials after examination by the applicator and determination of defects.
 - a. Notify manufacturer within 30 days of application.
2. Defects may include holidays, runs or sags the result of improper mixing or application methods, or other surface imperfections that would affect the integrity of the coating.

B Materials

Materials

- A. Geopolymer Coatings: Quick setting, high strength, acid resistant cementitious material.
 1. Corrosion resistant in a hydrogen sulfide environment.
 - a. Coating shall be resistant to Sulfuric Acid to a PH of 1. Letter shall be submitted by supplier verifying applicable sulfuric acid resistance.
 2. Compressive Strength (ASTM C39/C109)
 - a. 1 day: 2,500 psi
 - b. 28 day: 8,000 psi
 3. Flexural Strength (ASTM C78)
 - a. 7 day: 750 psi
 - b. 28 day: 1,500 psi
 4. Tensile Strength (ASTM C 496)
 - a. 28 day: 800 psi
 5. Modulus of Elasticity (ASTM C469)
 - a. 1 day: 3,000,000 psi
 - b. 28 day: 5,800,000 psi
 6. Bond Strength (ASTM C 882)
 - a. 28 day: 2,500 psi
 7. Quadex GeoKrete, Milliken GeoSpray AMS or Engineer approved equal.
- B. Underlayment (Surface Patch): Lean concrete mix, unless otherwise recommended by the coatings manufacturer.
- C. Acceptable manufacturers for the coating systems include:
 1. Geopolymer Coating
 - a. GeoTree Solutions
130 Corporate Drive, Ste B
Spartanburg, SC 29303
Tel: 1.855.655.6750
 - b. Quadex Lining Systems
9155 Wallisville Road
Houston, TX 77029
Tel: 1.713.204.7996
Fax: 1.844.204.7996
- D. Eliminate Water Intrusion at All Void Spaces:
 1. The materials used shall be designed, manufactured, and intended for sewer structure and pipe rehabilitation and the specific application in which they are used.
 2. The materials shall be delivered to the job site in original unopened packages and clearly labeled with the manufacturer's identification and printed instructions.
 3. All material shall be stored and handled in accordance with recommendation of the manufacturer and the American Concrete Institute.
 4. Final reaction produces stable, nonbiodegradable, flexible gel, impermeable to water at pressures up to 15 psi.
 5. Use gel control agent to control curing time.
 6. Use root inhibitor (50% active dichlobenil) when roots are present in manholes or sewer sections.
- E. Infiltration Control:
 1. Fast setting fiber reinforced, cementitious product without calcium chloride and is formulated as a water stop.
 2. Set time: 60 sec.
 3. Product expands when setting
 4. Compressive Strength (ASTM C 109)

- a. 60 min: 400 psi
 - b. 24 hour: 1,000 psi
- 5. Strong-Seal Strong-Plug or Engineer approved equal.
- F. Invert Repair and Structural Patching:
 - 1. Quick setting, high strength, fiber reinforced, acid resistant cementitious material designed to fill large voids in manholes.
 - 2. Shrinkage (ASTM C596):
 - a. 28 day R.H.: 0 percent
 - 3. Compressive Strength (ASTM C 109)
 - a. 6 hour: 1,400 psi
 - 4. Bond Strength (ASTM C321)
 - a. 28 day: 1,600 psi
 - 5. Strong-Seal QSR or Engineer approved equal.
- G. Cementitious Grout
 - 1. To be used to fix missing pipe wall surface per Drawings.
 - 2. Rapid setting, high early strength patching material
 - 3. 1 day compressive strength of 4,000 psi min
 - 4. 28 day compressive strength of 7,000 psi min
 - 5. Manufacturers and Products:
 - a. Quadex; Hyperform
- H. External Chimney Seal
 - 1. Infi-Shield Uni-Band (by Sealing Systems, Inc.) or Engineer approved equal.

Performance Criteria

- A. Wear Resistance (ASTM D4060): Loss due to taber abrasion; using abrasive wheel No. CS-17; maximum value.
 - 1. Coating: 2.12 oz. (60 mg) maximum.
 - 2. Primer: 3.53 oz. (100 mg) maximum.
- B. Hardness (ASTM D4060): Shore D Durometer.
 - 1. Coating: 55.
 - 2. Primer: 75.
- C. Tear Resistance (ASTM D624):
 - 1. Coating: 150 pli (2.7 kg/mm).
 - 2. Primer: N/A.
- D. Peel Strength (ASTM D903): Concrete substrate; tested as a system.
 - 1. Coating: 7 pli (125 g/mm).
 - 2. Primer: 7 pli (125 g/mm).
- E. Weight Change (ASTM D4060): When tested in conformance with Section 211-2 (B).
 - 1. Coating: Plus or minus 1.5 percent.
 - 2. Primer: Plus or minus 1.5 percent.
- F. Chemical Resistance: When tested in accordance with the Standard Specifications for Public Works Construction, "the Greenbook", Section 211-2, Table 211-2 (A), system shall meet the following chemical resistance properties:
 - 1. Sulfuric Acid (H₂SO₄):
 - a. Concentration: 20 percent, plus or minus 0.1 percent.
 - b. Check Concentration: N/A.
 - c. Replace Chemical Solution: N/A.
 - 2. Sodium Hydroxide (NaOH):
 - a. Concentration: 5 percent, plus or minus 0.2 percent.
 - b. Check Concentration: 56 days.
 - c. Replace Chemical Solution: When less than 4.8 percent.
 - 3. Ammonium Hydroxide (NH₄OH):
 - a. Concentration: 5 percent, plus or minus 1.0 percent
 - b. Check Concentration: 28 days.
 - c. Replace Chemical Solution: When less than 4 percent.
 - 4. Nitric Acid (HNO₃):
 - a. Concentration: 1 percent, plus or minus 0.1 percent.
 - b. Check Concentration: 28 days.

- c. Replace Chemical Solution: When turbid.
 - 5. Ferric Chloride (FeCl₃):
 - a. Concentration: 1 percent, plus or minus 0.2 percent.
 - b. Check Concentration: 28 days.
 - c. Replace Chemical Solution: When turbid.
 - 6. Sodium Hypochlorite (NaOCl):
 - a. Concentration: 1 percent, plus or minus 0.1 percent
 - b. Check Concentration: N/A.
 - c. Replace Chemical Solution: 28 days.
 - 7. Soap:
 - a. Concentration: 0.1 percent.
 - b. Tolerance: N/A.
 - c. Check Concentration: N/A.
 - d. Replace Chemical Solution: 28 days.
 - 8. Detergent (Linear alkyl benzyl sulfonate or LAS):
 - a. Concentration: 0.1 percent.
 - b. Tolerance: N/A.
 - c. Check Concentration: N/A.
 - d. Replace Chemical Solution: 28 days.
 - 9. Bacteriological (BOD):
 - a. Concentration: Greater than 700 ppm.
 - b. Tolerance: N/A.
 - c. Check Concentration: N/A.
 - d. Replace Chemical Solution: 7 days.
- G. Coating Thickness (Weight Change): When tested in accordance with the Standard Specifications for Public Works Construction, "the Greenbook", Section 211, Table 211-2 (B), system shall meet the following allowable weight change value in Table 211-2 (B):
- 1. Sample A:
 - a. Thickness: 0.375 inches (9.5 mm).
 - b. Weight Change: Plus or minus 0.75 percent.
 - 2. Sample B:
 - a. Thickness: 0.50 inches (12.7 mm).
 - b. Weight Change: Plus or minus 0.63 percent.
 - 3. Sample C:
 - a. Thickness: 0.75 inches (19.1 mm).
 - b. Weight Change: Plus or minus 0.50 percent.
 - 4. Sample D:
 - a. Thickness: 1.0 inches (25.4 mm).
 - b. Weight Change: Plus or minus 0.44 percent.
 - 5. Sample E:
 - a. Thickness: 1.5 inches (38.1 mm).
 - b. Weight Change: Plus or minus 0.38 percent.
- H. The coating shall meet the following additional requirements necessary for certification by the USDA as Biobased, when tested in accordance with ASTM D6866, Method B:
- 1. Mean Biobased Result: 61 percent or greater.

C Construction

Examination

- A. Verification of Conditions: Verify that sanitary sewer repair may be performed in accordance with original design, pertinent codes and regulations, and pertinent portions of referenced standards.
- B. Examine substrates, areas, and conditions, with applicator present where indicated, for compliance with requirements for application tolerances and other conditions affecting performance. Notify the Engineer of conditions detrimental to performance of the Work and recommended corrections. Where the application and its completion may be delayed due to existing conditions, follow notification immediately with a written report. Proceed with application only after unsatisfactory conditions have been corrected.

- C. If there are discrepancies between repairs specified in the repair table on Drawings and Proposal: Immediately notify Engineer in writing. Do not proceed with repair in areas of discrepancy until fully resolved. Commencement of repair signifies acceptance of conditions.

Preparation

- A. Minimize the length of time sewage is diverted. Do not begin diversion of sewage without the City's approval. Do not begin diversion of sewage until all equipment and materials necessary for the installation of the temporary facility are on site.
1. Surface preparation shall be performed consistent with the manufacturers' recommendations.
 2. Provide watertight manhole and sewer connections for all repairs. Block all pipes to prevent materials from entering sewer.
 3. Clean interior surfaces of manhole and sewer of debris, dirt, oil, grease, roots, remains of old coating materials, and any other extraneous organic and inorganic materials.
 - a. Remove oil and grease prior to mechanical cleaning.
 - b. Prevent contaminates the result of the cleaning process, from falling onto wet, newly-coated surfaces.
 4. High pressure water blasting with a minimum of 3,500 psi shall be used on all interior surfaces to remove loose mortar, concrete and debris. If oil or grease are present, an approved detergent or muriatic acid shall be used integrally with the pressure wash.
 5. Handle cleaning water in closed discharge hoses to prevent water and residue from causing damage. Do not discharge debris through sanitary sewer. Filter solids-laden water through an Engineer approved de-silting device.
 6. All active leaks in the manhole or sewer walls, invert and bench area shall be sealed using pressurized urethane grout. Surfaces must be re-cleaned after every grout application.
 7. When moisture is present, review guidelines for application of coating to damp surfaces; do not apply coatings over surfaces that exhibit pooling or standing water.
 8. Remove hardware, hardware accessories, machined surfaces, plates, lighting fixtures and similar items in place and not to be coated prior to surface preparation and coating per City approval.
 - a. Remove items for complete coating of the items and adjacent surfaces, including any steps on the walls of the structure.
 9. Concrete Surfaces: Clean concrete in accordance with ASTM D4258, and as specified herein.
 - a. Ensure that newly placed concrete has been allowed to cure based on coating manufacturer's recommendations.
 - b. Examine new and existing concrete surfaces for sharp edges, ridges and depressions.
 - c. Remove fins and other protrusions by grinding.
 - d. Fill surface voids exhibiting 1/2 inch (12.7 mm) or more of exposed aggregate, with underlayment material compatible with the coating material, and finish flush with surrounding surface.
 - e. Repair static structural cracks by filling voids, and reestablishing design slopes.
 10. Coat all exposed steel with bonding compound.
 11. Material identified in Infiltration Control will be used following grouting or in areas actively leaking.
 12. All voids in sewer or manhole wall, pipe intrusions, bench and bench replacement and any locations greater than 3 inches in depth from final liner coating inside wall will be filled using material identified in Invert Repair and Structural Patching in accordance with manufacturer recommendations.

Manhole and Sewer Liner Coating Installation

- A. Geopolymer Material Preparation and Mixing

Contractor shall mix geopolymer material in accordance with the Manufacture's recommended water cement ratio. Precision metering of water in a continuous mixing chamber is required to maintain the strict water to material ratio. It is important to maintain the specified water to geopolymer ratio throughout the application process. Uniform water to polymer ratio equates to consistent strength. The ability to closely adjust and monitor the addition of water through the use of a sight tube system is required.

Mixing water temperatures must be determined before blending operations begin. The mixing water temperature must be recorded in the daily operation log at multiple times throughout the day during the installation process. If water temperatures exceed 80°F, then the water shall be chilled to 80°F or lower. The ability to provide mixing water at a consistent temperature is a critical aspect of the mixing and installation process. Industrial electronic chillers are available and shall be of a suitable capacity to provide the proper amount of water and at the required temperature. High temperature applications, those greater than 80°F, require the use of water chillers to maintain the water at the proper temperature.

The geopolymer lining material shall be mixed in a high shear mixer to ensure thorough and uniform mix of water with the material prior to pumping. Begin pumping through an adjustable rotor stator pump for continuous delivery to the appropriate application device.

The mixing operations must be performed so that the minimum of dust is released into the surrounding environment.

This process requires the use of continuous automated mixing and pumping, which eliminates human error and mechanical issues associated with maintaining consistent water/material ratio, mix time, mix speed and dwell time prior to pumping. The automation of dry material feed rate, precise metering of water and pump rate eliminates wet/dry and thick/thin variations resulting in a uniform structure regardless of the pumping distance.

Pumps shall be equipped with multiple sensors that stop the pump if material either runs out or is overflowing.

Multiple spin casting units shall be made available onsite to address any application issues that arise during the lining process.

Multiple spin cast nozzles shall be made available onsite at all times to address any application issues or failure of the nozzle. Multiple nozzles may be required to produce the required depth or finish of the liner surface.

Combine all packaged geopolymer liner dry mix with the specified amount of potable water while mixing until proper consistency is obtained, as described by the manufacturer. The mixer must be capable of regulating the amount of water added to the mix on a consistent basis. Tempering of the material above the manufacturers published limits is not allowed. Continue to agitate the geopolymer liner material to prevent thickening beyond the desired fluidity.

The working time shall be as per manufacturer's recommendations.

B. Geopolymer Application Preparation

The geopolymer liner may be spin cast or hand sprayed to the interior surface of the host pipe after it has been properly prepared and cleaned. Hand trowling is required for final finish. Hand troweling is also allowed for difficult to reach locations such as drain connections.

The geopolymer liner material shall be applied to a saturated surface. However, pools of water shall be removed before the start of the application of the geopolymer liner material. There shall be no dry or wet weather flow in the sewer during application and the sewer must be kept dry from any infiltration.

The geopolymer liner material delivery hose shall be coupled to a medium-velocity spray application nozzle. Pumping of the material shall commence and the material shall be atomized by the introduction of air at the nozzle, creating a medium-velocity spray pattern for material application. The temperature of geopolymer in the hoppers shall be around 50°F and rising before pumping begins.

Any person applying the material or operating the pump shall meet the requirements of Article 1.05.D of this Section.

The use of calcium chloride as a settling and hardening accelerator is not allowed.

The Contractor must be aware of weather conditions and temperatures when scheduling the installation of the liner. The geopolymer liner shall not be applied when ambient and surface temperatures are expected to fall below 40°F or above 90°F within 72 hours of placement, without written permission from the manufacturer.

If the manufacturer provides written consent to install the material below 40°F, the following requirements must be met.

1. The geopolymer shall be covered, dry and kept above freezing.
2. All substrates shall be above 40°F.
3. Air temperature in contact with the material, subsequent new substrate/pipe surface shall be kept above freezing for 72 hours.
4. Water added to materials shall be above 40°F.
5. To accelerate the rate of reaction, warm water may be used.

C. Sewer Geopolymer Hand Spraying and Spin Casting

1. The contractor must ensure the Sewer Flow Control is in place before any lining may occur. The sewer must be kept dry and free of any wet or dry weather flow or standing water before lining may begin.
2. Materials to which geopolymer liner is applied must be saturated with water, but without free water on the surface, to facilitate bond and to reduce the possibility of shrinkage cracking developing from premature loss of mixing water. Normally, surfaces in a sewer are saturated. However, these surfaces shall be dampened if operation of the ventilation system has caused them to dry.
3. Control thickness, method of support, air pressure, and/or water content of geopolymer liner to preclude sagging or sloughing off.
4. The surface of freshly placed geopolymer liner, to which additional layers of geopolymer liner are to be bonded, shall be broomed or scarified at about the time of its initial set to remove the film of laitance which would inhibit bonding. If the laitance is not removed before the previously applied layer takes its final set, then the surface shall be sand blasted before applying a subsequent layer. Dampen the surface just prior to application of succeeding layers.
5. Using a wet gage, verify applied thickness at random perimeter locations at least once every 10 feet during the application process. Immediately apply additional material to any areas found to be less than the design thickness.
6. Do not allow overspray and rebound to accumulate on the prepared surfaces during geopolymer liner placement. Geopolymer liner placed over accumulations of rebound and overspray will exhibit poor bond and laminations and shall be removed and replaced.
7. Fill with sound material corners, cavities, and other areas where rebound cannot escape or be blown free.
8. Provide a supply of clean, dry air adequate for maintaining sufficient nozzle velocity for the work and, if required, for simultaneous operation of a blow pipe for clearing away rebound.
9. Do not place geopolymer liner if drying or stiffening of the mix takes place prior to delivery to the nozzle.
10. Flow must not be allowed across geopolymer liner until it has attained sufficient strength per the manufacturer's recommendations to prevent erosion by the flowing water.
11. The geopolymer liner must be troweled after the final completion of the liner has reached the specified thickness so that liner is of a smooth finish. Precautions shall be taken not to over-trowel. Only a wood float or Magnesium (Mg) float shall be utilized.
12. The completed liner shall be smooth and free from honeycomb and areas of segregation

D. Structure Geopolymer Hand Spraying and Spin Casting

1. Perform manhole coating installation in accordance with manufacturer recommendations for coating identified in Materials of this Section.
2. Materials to which geopolymer liner is applied must be saturated with water, but without free water on the surface, to facilitate bond and to reduce the possibility of shrinkage cracking developing from premature loss of mixing water. Normally, surfaces in a sewer are saturated. However, these surfaces shall be dampened if operation of the ventilation system has caused them to dry.
3. The bottom of the structure must not have free standing water and shall be surface-damp before the geopolymer liner is applied.
4. Hand spraying shall be performed by starting at the bottom of the structure and progressing up the wall.
5. Apply first coat of material to surfaces that have been cleaned, pretreated or otherwise prepared for coating as soon as practicable after preparation and before subsequent surface deterioration.
6. Prepare surfaces between each subsequent coat in accordance with manufacturer's directions.
7. Apply additional coats until final coat is of uniform finish, color, appearance, and overall specified thickness has been achieved.

8. Ensure that edges, corners, crevices, and similar features receive a coating thickness equivalent to that of flat surfaces.
9. Provide a final finish free of holidays, voids, sags, and other surface imperfections.

E. Curing of Geopolymer Lining

Follow manufacturer's recommended cure schedule in curing of the geopolymer liner. The material must be allowed to cure a minimum of 2 hours or until the material has reached an initial set condition whichever is longer prior to the release of bypass or flow through the pipe.

Proper steps shall be taken to ensure the material is cured in a moist and moderate climate. General underground conditions are usually adequate to meet this curing requirement. However, when situations of dry and/or hot conditions are present, the use of a wind barrier and fogging spray may be required.

The geopolymer liner should not be placed when the ambient temperature is 37°F and falling or when the temperature is anticipated to fall below 32°F during the next 24 hours, unless specific precautions are employed.

Refer to ACI 305R-99 Hot Weather Concreting. Do not apply geopolymer liner material when ambient and surface temperatures are 100°F or 35°C and above. Shade the material and prepare the surface to keep it cool. To extend working time, mix the material with chilled water. Be certain the substrate is saturated surface dry (SSD) before application begins. Proper curing is always required and is particularly important in hot weather.

Refer to ACI 306R-88 Cold Weather Concreting. Low-substrate and ambient temperatures slow down the rate of set and strength development. At temperatures below 45°F or 7°C, warm the material and monitor substrate temperatures. Properly ventilate the area when heating. Protect the new liner from freezing in the first 6 hours after application.

F. Termination and Laterals

1. Termination of the geopolymer liner at the end of a pipe or manhole shall be completed by hand applying the geopolymer liner to the outer surface of the pipe or into the interior of the manhole for a smooth transition.
2. The Contractor shall reopen the existing active connections after the final geopolymer lining pass. Restored openings shall be neatly and smoothly opened and without rough edges for a smooth transition into the newly lined pipe. Care must be exercised not to damage the geopolymer lining while reinstating the lateral.

Field Quality Control

- A. Field quality control shall be paid for by the Contractor.
- B. Contractor shall employ an independent third party ACI certified testing agency to conduct and report compressive strength testing of the concrete utilized in the rehabilitation.
- C. The samples may be taken from the pump immediately before discharge into the hose or at the spin caster, if feasible.
- D. The test cylinders shall be required at the start of the project and shall be required per work location.

Location	Age	ASTM Standard	Min. # of Test Required
16th St. Sewer – West Side	7 and 28 days	ASTM C39 or C-109	2
16th St. Sewer – East Side	7 and 28 days	ASTM C39 or C-109	2
21st Trunk Sewer – West Side	7 and 28 days	ASTM C39 or C-109	2
21st Trunk Sewer – East Side	7 and 28 days	ASTM C39 or C-109	2

- E. Samples shall have the same number (ID) as the manhole or sewer section shown in the plans.
- F. Contractor shall provide photos of samples after testing, with samples numbered to match manholes and sewer sections numbers shown in plans.

- G. Contractor shall provide the amount of material used at each pipe segment (from manhole to manhole).
- H. The Contractor will perform a post-installation television inspection that meets the requirements of Section 33 01 30 Cleaning and Closed-Circuit Television (CCTV) Inspection of Sewers. The video will show the completed work, including condition of restored connections.
- I. Prepare test and inspection reports.

Restoration

- A. Contractor shall clean all remaining debris from pipe, structure, and work site and dispose of all debris in accordance with City requirements.
- B. Upon completion of the Work, clean spattered surfaces. Remove spattered coatings by washing and scraping, using care not to scratch or otherwise damage finished surfaces.
- C. Dispose of unused coating materials in a lawful manner after completion of coating application.

D Measurement

The department will measure Interceptor Manhole Lining by each manhole designated for lining, regardless of height.

The department will measure SAPL (Size) Interceptor by the linear foot of designated length of lining acceptably completed.

There will be no additional measurement for reinstatement of laterals, abandonment of inactive connections.

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	Interceptor Manhole Lining	Each
SPV.0090.30	SAPL 47"X66" Interceptor	LF
SPV.0090.31	SAPL 46"x60" Interceptor	LF

The unit price bid for Interceptor Manhole Lining shall be considered compensation in full to line the manholes as indicated on the Drawings and shall include, but not be limited to:

- a. Surface preparation including removal of organic and inorganic materials,
- b. Surface repair and repair of structure defects,
- c. Saw cutting and removal of steps and drop pipe flush with manhole wall,
- d. Reinstall drop pipe after lining the manhole (if required),
- e. Sealing and coating application from the manhole invert to the top of the manhole casting or access hatch,
- f. Inspections and reports as outlined in Submittals in this Section,
- g. CCTV for manholes to be lined including:
 - 1) Pre-lining/post-cleaning/pre-grouting,
 - 2) Post-grouting,
 - 3) Post-lining, and
- h. Protection, restoration, and reinstatement to service laterals connected to the structure are considered incidental.
- i. Testing:
 - 1) Complete all testing required for project
- j. All other items and tasks incidental thereto.

Payment is full compensation in full to line sewers as indicated on the Drawings and shall include, but not be limited to:

- a. Surface preparation including removal of organic and inorganic materials,
- b. Surface repair,
- c. Inspections and reports as outlined in Submittals in this Section,
- d. Reinstatement Active Service Lateral Connection after completion of the liner installation.
- e. Abandon Inactive Service Lateral Connection, including:

- 1) Plug and abandon the inactive lateral connections.
- f. All other items and tasks incidental thereto.
- g. Testing:
 - 1) Complete all testing required for project

35. **Cleaning and Televising Sewer Interceptor, Item SPV.0090.32**

A Description

Summary

- A. Cleaning and Closed-Circuit Television (CCTV) inspection documentation of pipe indicated on drawings.
- B. This only applies to the sewer interceptor. Separate pay items exist for storm sewer televising.

References

- A. NASSCO - Pipeline Assessment and Certification Program (PACP), TV inspection form and sewer condition codes.

Definitions

- A. Pipe Segment: The length of pipe connecting 2 manholes.

Submittals

- A. General
 1. Sewer CCTV video inspection footage shall be submitted to Engineer or Owner at completion of pre-lining cleaning and at completion of geopolymer coating and lateral connection reinstatement for approval. Format of order and documentation shall be approved by Engineer. All CCTV footage shall follow PACP standard format and be performed by PACP certified personnel. CCTV video footage shall be provided using a USB Flash Drive. USB Flash Drive shall be purchased by the Contractor and shall become the property of Owner after final submittal.
 2. All CCTV video footage, PACP databases, PDF reports, and curing data shall reference the manhole-to-manhole pipe segments as they are identified on the plans and in the specifications.
 3. Submit pre-lining CCTV video footage for pipes indicated in the drawings to Engineer for approval a minimum of 24 hours before lining indicated pipes. Connections shall be noted as being "active – to be reinstated" or "inactive – not to be reinstated" on the PDF report. No pipes shall be lined until the contractor receives written approval for any particular manhole to manhole segment.
 4. Final submittal shall contain CCTV video footage, PACP database, PDF reports, and curing data. Hard copies of the PDF reports are not required.
- B. Video Inspection:
 1. Provide one (1) copy of visual and audio record of inspection on a USB Flash Drive.
 2. Features:
 - a. Color, digital file format compatible with Microsoft Windows Media Player capable of recording audio and video components of inspection.
 - b. Video display of footage counter continuously showing distance from reference point.
 - c. Slow and stop motion.
 - d. Speed: Maximum televising velocity of 30 to 35 feet of pipe per minute.
 3. Audio record should include:
 - a. Date and time of inspection.
 - b. Operator name.
 - c. Street or surface location of reference manhole.
 - d. Size and type of pipe being inspected.
 - e. Direction of camera.
 - f. Description of all significant items including:
 - 1) Broken or damaged pipe.
 - 2) Points of infiltration.
 - 3) Root intrusions.
 - 4) Scale and corrosion.
 - 5) Service connections.

- 6) Pipe deflections.
 - 7) Other discernable features.
 - g. Distance of each item from the reference manhole.
 - h. Location of each item with respect to pipe axis.
 - 4. Audio record shall correspond with written log.
 - 5. Identify location and date of inspection on a USB Flash Drive.
- C. Written Logs:
- 1. Supply typewritten record of inspection on a standard format.
 - 2. Written record should correspond with audio record.
 - 3. Written record should include all information required for audio record.
 - 4. Furnish 1 copy in PDF format.
- D. Photographs:
- 1. Supply photographs of specific items as follows:
 - a. Broken or damaged pipe.
 - b. Points of infiltration.
 - c. Lateral connections.
 - 2. Include with written log.

Qualifications

- A. All Work shall be performed by personnel who have been specifically trained for equipment used and who have experience in televised inspections.

B Materials

Equipment

- A. Television Camera:
 - 1. Specifically designed and constructed for operations associated with sewer inspection.
 - 2. Adequate quality to accurately reproduce all colors and provide a clear, focused picture of the entire pipe interior for all conditions encountered.
 - 3. Operative in 100 percent humidity conditions.
 - 4. Adjustable mounting in order to center lens in a variety of pipe diameters.
 - 5. Built-in light source positioned to minimize reflective glare.
 - 6. Adjustable focal distance from 6 inches to infinity.
 - 7. Articulating feature to provide for viewing of up to 90 degrees in all directions.
 - 8. Variable speed operation propelled by:
 - a. Power winch.
 - b. Hand winch.
 - c. Self propelled.
 - 9. Footage counter to measure distance traveled.
- B. Television Monitor:
 - 1. Vehicle mounted for viewing in a weather-protected environment.
 - 2. Minimum Screen Size: 9-inch.
 - 3. Minimum 350 line resolution color picture.
 - 4. Display footage counter superimposed on screen.

Accessories

- A. Provide:
 - 1. Vehicles, as required.
 - 2. 2-way radio/telephone communication equipment.
 - 3. Video and audio signal cable.
 - 4. Digital color video equipment.
 - 5. Equipment to generate photographs from individual video frames.
 - 6. Power source.
 - 7. Winches and cables.

C Construction

Preparation

- A. Preliminary Work Performed by Contractor:
 - 1. Locate and expose all manholes required for access to sewer system.
 - 2. Clean and flush pipe segments to be inspected.

3. Provide access to manholes with adequate area for operation of inspection equipment and personnel.

Performance

- A. Description of Work:
 1. Propel closed-circuit television camera through designated pipe segments to document condition of pipe, joints, and service connections.
 2. Use in-place manholes for access to pipe segments.
 3. Operate camera from remote video monitor display.
 4. Record camera from remote video monitor display.
 5. Record camera output on digital video media for future viewing.
 6. Pipe segments to be inspected are shown on the design drawings.
- B. Sewage Flow Control:
 1. When sewage flows in pipe segment to be inspected exceed minimum levels for a complete inspection of the pipe interior, perform one of the following control methods.
 - a. Plugging and blocking:
 - 1) Provide plugs which will allow a controlled release of sewage flow.
 - 2) Insert plugs in the upstream manhole of the pipe segment to be inspected.
 - 3) As the inspection is performed, shut off or reduce flows to minimum acceptable level for adequate inspection.
 - b. Bypass pumping:
 - 1) Eliminate flow in pipe segment to be inspected by inserting solid plugs in upstream manhole.
 - 2) Provide pumping equipment and conduits to transfer sewage flows from upstream side of the plug to a downstream manhole, around the pipe segment during the inspection in accordance with Section 01 51 00.
 2. When excessive flow is entering pipe segment being inspected from outside source, Contractor shall proceed with one of the following methods:
 - a. Coordinate with source owner to stop or reduce flow to acceptable levels.
 - b. Reschedule inspection of pipe segment to when flows are at acceptable levels.

Inspection Procedure

- A. Move camera through entire pipe segment in a downstream direction.
- B. Winches:
 1. Winch assembly shall not obstruct camera view.
 2. If non-remote control winch is used, provide 2-way communication between television monitor and winch operator.
- C. Center lens in pipe area.
- D. Maximum Camera Speed: 30 feet per minute.
- E. Relay video signal from camera to monitor and digital video recorder.
- F. Produce audio record concurrently with video record.
- G. Stop camera when necessary to properly document significant items and take photographs as requested by Owner.
- H. Use articulating feature to obtain the best possible view of service connections and other items.
- I. Zero footage counter at inside wall of manhole in each pipe segment.
- J. In case of obstruction in pipe segment, reset camera in downstream manhole and propel upstream to opposite side of obstruction.

Field Quality Control

- A. Verify accuracy of footage counter by measuring surface distance between manholes with a measuring wheel.
- B. Footage counter shall be accurate to within 1 percent of the length of pipe segment.

D Measurement

The department will measure Cleaning and Televising Sewer Interceptor by the linear foot of existing pipe designated for rehabilitation. No additional measurement will be made for additional cleaning. Note that multiple runs of televising will be required through the same section of pipe, and the total measurement for each pipe section will only be made once.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.32	Cleaning and Televising Sewer Interceptor	LF

Payment is full compensation for all required pipe preparation, televising, cleaning, debris removal, debris disposal. Cleaning shall include, but is not limited to, removing all roots, cutting and brushing protruding taps, removing mineral deposits, loose pieces of pipe, and other foreign objects as deemed necessary by the Engineer.

36. Remove Water Valve and Box, Item SPV.0060.40; Remove Curb Stop and Box, Item SPV.0060.41; Remove Hydrant, Item SPV.0060.42; Remove Valve Vault, Item SPV.0060.43; Remove or Abandon Water Main, Item SPV.0090.40

A Description

This special provision describes removing or abandoning existing water main and appenditures and disposing of resulting materials. All work shall follow Chapter 4.14.0, *Wisconsin Water and Sewer Specifications* and plan details and at locations as shown on plan sheets except as modified by this specification.

B Materials

When Abandonment is chosen, contractor shall provide cellular concrete meeting the following specifications: one (1) part cement, one (1) part fly ash, eight (8) parts sand, or an approved equal, and water. Provide cement meeting the requirements of 501.2.1 of the Standard Specifications for Type 1 Portland Cement, sand meeting the requirements of 501.2.5.3, and water meeting the requirements of 501.2.4.

Blown sand may be substituted for cellular concrete upon written approval of the Engineer.

C Construction

Remove or abandon the existing water main and appenditures at locations as shown on plans. All removed items shall become the property of the Contractor. Contractor shall not reuse any removed items on this project without the written consent of the Engineer. All materials shall be disposed of properly and in accordance of all laws and regulations

Where existing water main is to be abandoned in place, fill the abandoned water main with cellular concrete or blown sand. Where vales are to be part of the abandonment, the valve box shall be removed all the way to the pipe and the resulting hole backfilled as noted below. Valve Vaults shall be fully removed.

Unless otherwise provided, use excavated material in backfilling excavations made in removing water main.

Backfilling: Fill all trenches resulting from the removal of the water main with satisfactory soil. Place backfilling material in layers not more than 8 inches in thickness except that granular material may be placed in layers not more than 12 inches in thickness. Thoroughly compact each layer by means of approved tampers, rollers, or vibrators. If there is water in an excavation, perform backfilling operations so that such water is displaced by the backfill and not trapped within backfill.

D Measurement

The department will measure Remove Watermain by length in lineal feet, Remove Hydrant and Remove valve as a unit each. The department will measure Abandon Watermain and Appenditures by length in lineal feet, with any valves within the abandonment considered part of the Watermain Abandonment.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
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SPV.0060.40	Remove Water Valve and Box	Each
SPV.0060.41	Remove Curb Stop and Box	Each
SPV.0060.42	Remove Hydrant	Each
SPV.0060.43	Remove Valve Vault	Each
SPV.0090.40	Remove or Abandon Water Main	LF

Payment is full compensation for removing existing item, disposing of all material, for all excavation, backfilling; and for all labor, tools, equipment and incidentals necessary to complete the work. Where abandonment is used, the payment is full compensation for all work items necessary for abandonment.

37. Gate Valve and Box, 8-Inch, Item SPV.0060.44

A Description

This special provision describes furnishing and installing gate valves and boxes as shown on the plans and described by these specifications.

B Materials

Gate Valves shall be in accordance with Chapter 8.27.0, *Wisconsin Water and Sewer Specifications*, except as modified herein:

1. Gate valves: resilient seated, conforming to AWWA C515
2. Working pressure: 200 psi.
3. Ends: Alpah or Hymax Grip shall be used on all connections to new PE piping. Mechanical joint complete with gasket, gland, and bolts. Bolts or valve flange shall be provided with means for preventing the bolt from slipping in the slotted holes for all connections to existing piping.
4. Operating stem: non-rising with O-ring seals.
5. Operating nut: 2-inch square, open left.
6. Bonnet to body connection: stainless steel bolts and nuts.
7. Valve boxes: adjustable screw type.
8. Gate valve adaptor: Adaptor, Inc., or equal.
9. Gave Valves shall be American Flow Control or Mueller.

Gate Valve Boxes shall be Tyler or approved equal. Preferred parts and descriptions are below.

SWLP Name	Description	Manufacture
Lid	COVER, VALVE BOX, 5-1/4 IN SHAFT, MFR TYLER ITEM CODE 145325	Tyler
Top Piece	TOP, VALVE BOX, 5-1/4 IN SHAFT, 26 IN LONG, SCREW TYPE, MFR TYLER SERIES 6850-60 26T	Tyler
Middle Section	EXTENSION, VALVE BOX, 5 1/4 IN SHAFT, 18 IN LONG, SCREW TYPE, MFR TYLER SERIES 6850/60 60 18EXT	Tyler
Bottom Section	BOTTOM, VALVE BOX, 5 1/4 IN SHAFT, 36 IN LONG, SCREW TYPE, MFR TYLER SERIES 6860 36B	Tyler
Bottom Bell	BASE, VALVE BOX, 5 1/4 IN SHAFT, MFR TYLER SERIES 6860-65 NO. 6	Tyler
Bottom Bell Rubber Base	BASE ADAPTOR, VALVE BOX, RUBBER, #6 BASE, MFR ADAPTOR INC PART # 60070001 OR BINGHAM & TAYLOR PART # ADP5001006S	BINGHAM & TAYLOR
		ADAPTOR, INC.

C Construction

Install gate valves in accordance with Chapter 4.8.0, *Wisconsin Water and Sewer Specifications* and plan details and at locations as shown on plan sheets. Place and compact native material around all gate valves.

Where the valve is located under pavement, install so that the top of the box is 3/8 inch below the pavement surface. Upon completion of final pavement surfacing, all gate valve boxes shall be cleaned so they are easily accessible.

D Measurement

The department will measure 8-Inch Gate Valve and Box as each individual valve and box as a unit complete in place, including furnishing and installing, and final adjustment of the valve and valve box 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.0060.44	Gate Valve and Box 8-Inch	Each

Payment is full compensation for removing existing water main gate valves and boxes where necessary, furnishing and placing all materials, and for all labor, tools, equipment, and incidentals necessary to complete the work.

38. Hydrant Assembly, Item SPV.0060.45

A Description

This special provision describes furnishing and installing hydrants as shown on the plans and provided for by these specifications.

B Materials

All hydrants shall meet the requirements of Chapter 8.26.0, *Wisconsin Water and Sewer Specifications*, except as modified herein:

1. All hydrants shall be Mueller, Super Centurion A-403 with HYMAX Grip restraint and conforming to the following requirements. No substitutions are permitted.
2. Fire hydrants shall meet or exceed all applicable requirements of the latest revision of ANSI/AWWA Standard C502 and certified to ANSI/NSF 61 & 372.
3. Bury depth: 7.5 feet (ground to bottom of hub).
4. Fire hydrants shall be of the compression type, opening against the pressure and closing with the pressure.
5. Connections: hose connections: 2 each at 2-1/2-inch diameter with standard nozzle caps; pumper connection: 1 each at 5-inch diameter with Superior Thread Specifications.
6. Operating stem: open right with O-ring seals. An arrow and the letter "L" shall be cast on the nozzle section to indicate the specified opening direction.
7. Hub: 6-inch mechanical joint.
8. Barrel: 5-inch diameter.
9. Traffic flange, traffic break-off section: 16-inch.
10. All hydrant assemblies shall include a 6-inch gate valve and a minimum 3-foot section of 6-inch water main between the gate valve and the hydrant.
11. Bolts and Nuts: stainless steel
12. All hydrant drains shall be plugged, without exception.
13. Color: Yellow.

C Construction

Install hydrant in accordance with Chapter 4.8.0, *Wisconsin Water and Sewer Specifications*, and strictly as shown on the plan detail, unless otherwise approved by the engineer.

Verify that subgrade material is adequate to support hydrant. Place thrust block in accordance with detail drawings.

D Measurement

The department will measure hydrants each as a unit, to include hydrant base, blocking, as indicated in the detail. Hydrant assembly installation will be measured per each by the number of hydrants furnished and installed as specified including the tee, branch service pipe and valve acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.45	Hydrant Assembly	Each

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

39. Connect to Existing Water Main, Item SPV.0060.46

A Description

This special provision describes connecting to existing water mains as shown on the plans and provided by these specifications.

B (Vacant)

C Construction

C.1. General

Construct all connections to existing water mains in accordance with Chapter 4.14.0, *Wisconsin Water and Sewer Specifications*. All necessary fittings, materials, labor, and equipment shall be incidental to the item. Have all proper materials and equipment immediately on hand when a water main is taken out of service for connection.

Cut into existing water main at locations as shown on plans after meeting quality control (safe water, pressure tests, and conductivity tests) requirements for new water main.

Disinfect all sleeves, fittings, and other appurtenances used in the connection with 50 parts per million chlorine solution prior to installation using a disinfection method approved by the engineer and Superior Water, Light & Power.

C.2. Interruption of Water Service

Coordinate with the engineer and Superior Water, Light and Power on allowable times to turn off the service main in order to install the tee, valves, and connect to the existing main at each location.

Provide minimum 72 hours notice to engineer, Superior Water, Light and Power, residents, and emergency services prior to taking any main out of service.

Alternatively, the Contractor may elect to do live taps for the valve and tee with no additional compensation.

D Measurement

The department will measure Connect to Existing Water Main as a unit each, regardless of pipe size, including all cutting of pipe, removing existing fittings and any required sleeves or fittings or other items needed for a complete installation.

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	Connect to Existing Water Main	Each

Payment is full compensation for cutting existing water main, connecting to existing water main, furnishing and placing all materials, including any required connecting sleeves and fittings; and for all tools, labor, equipment, and incidentals necessary to complete the work.

40. Connect to Existing Water Service, Item SPV.0060.47

A Description

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

B (Vacant)

C Construction

Follow the requirements of Chapters 5.5.0 and 5.6.0 *Wisconsin Water and Sewer Specifications* and these specifications

Make leak free connections to existing services with appropriate fittings, couplings, and adaptors to match the existing service material. All materials and labor necessary to make service connections are incidental to the unit cost.

At the location where new curb stops are being connected to existing services, remove old curb box and properly dispose of it. Removal and disposal is incidental to the other items of work.

D Measurement

The department will measure Connect to Existing Water Service as each connection complete in place, including all fittings and adapters and all other items needed for a complete installation.

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	Connect to Existing Water Service	Each

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

41. Tapping Tee With Electrofusion Saddle, Item SPV.0060.48

A Description

This special provision describes furnishing and installing water service tapping tee with electrofusion saddle, all as shown on the plans, as further directed by the engineer in the field and as provided by these specifications.

B Materials

The tapping tee with electrofusion saddle shall be manufactured by Central Plastics Company or equal and shall conform to the requirements for HDPE pipe and fittings as specified.

C Construction

The HDPE water service pipe shall be butt fused to the tapping tee with electrofusion saddle as shown in the details.

D Measurement

The department will measure Tapping Tee with Electrofusion Saddle as each unit installed including the water main tap and tapping tee with electrofusion saddle.

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	Tapping Tee with Electrofusion Saddle	Each

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

42. Curb Stop and Box, 1-Inch, Item SPV.0060.49; Curb Stop and Box, 2-Inch, Item SPV.0060.50

A Description

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

B Materials

All Curb Stops and Boxes shall meet the requirements of Chapter 8.31.0, *Wisconsin Water and Sewer Specifications* and the following requirements:

1. Curb stop:
 - a. 1" shall be R.W. Lyall & Company Inc., Kerotest, Nordstrom or approved equal.
 - i. IPS (Small Body Valve)
 - ii. SDR 11, PE 3408/PE 100 (High Density)
 - iii. Standard ends, full port, standard Operating Nut
 - b. 2" shall be R.W. Lyall & Company Inc., Kerotest, Nordstrom or approved equal.
 - i. IPS (Large Body Valve)
 - ii. SDR 11, PE 3408/PE 100 (High Density)
 - iii. Standard ends, full port, standard Operating Nut
2. Box:
 - a. 1" Service shall have a box which will be provided by SWL&P. Contractor shall install the provided box with each service.
 - b. 2" Service shall have a 4" box which shall be Handley Industries W4iHLc505BLR with base VV5.

C Construction

Install corporation stops in accordance with Chapter 5.5.0 *Wisconsin Water and Sewer Specifications*, except as modified herein.

Disinfect each curb stop by immersing it into a 50 parts per million chlorine solution. Remove all concrete splashes or other debris from the box top.

Supplied curb stop boxes for 1" services shall be installed as will be demonstrated prior to construction. In general, the construction of these boxes requires preparation of a level, sand base, placement of the box bottom under the curb stop. The top section of the base attaches to the bottom section with 2 stainless steel bolts. The box section shall be wrapped in tape (wax tape, duct tape or approved equal) such that the box openings are sealed. Then a 6' iron riser section is placed. The final step is to cut to the finished grade the top PE section of the box riser. Care must be taken during backfill to ensure box stays plumb and no material gets into the box.

D Measurement

The department will measure Curb Stop & Box 1-Inch and 2-Inch as each individual curb stop and box 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	Curb Stop and Box 1-Inch	Each
SPV.0060.50	Curb Stop and Box 2-Inch	Each

Payment is full compensation for furnishing (other than the provided 1-inch boxes) and placing all materials; and for all tools, labor, equipment, and incidentals necessary to complete the work.

43. Concrete Curb & Gutter 6-inch sloped 18-Inch Type J Modified, Item SPV.0090.01

This special provision describes constructing concrete curb and concrete curb & gutter in accordance with the requirements of section 601 of the standard specifications, the details shown in the plans, and as hereinafter provided.

Provide concrete that conforms to the requirements for concrete in accordance with section 501 of the standard specifications.

Modify the gutter width to 10-inches.

44. Cure and Seal Treatment, Concrete Curb and Gutter, Item SPV.0090.02; Cure and Seal Treatment, Concrete Sidewalk, Item SPV.0165.01; Cure and Seal Treatment, Concrete Median Sloped Nose, Item SPV.0165.02

A Description

This special provision describes treating all newly constructed concrete curb and gutter, concrete sidewalk, and concrete median sloped nose with a surface cure and seal treatment as shown on plans, and as hereinafter provided.

B Materials

Materials shall conform to a clear treating material listed on the current approved WISDOT product list for "Cure and Seal Compounds for Non-Trafficked Surfaces on Structural Masonry".

C Construction

Application rates for the treating material shall be according to the manufacturer's specifications

D Measurement

The department will measure the Cure and Seal Treatment, Concrete Curb and Gutter by the linear foot, acceptably completed.

The department will measure the Cure and Seal Treatment: Concrete Sidewalk by the square foot, acceptably completed.

The department will measure the Cure and Seal Treatment: Concrete Median Sloped Nose by the square foot, acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.02	Cure and Seal Treatment, Concrete Curb and Gutter	LF
SPV.0165.01	Cure and Seal Treatment, Concrete Sidewalk	SF
SPV.0165.02	Cure and Seal Treatment, Concrete Median Sloped Nose	SF

Payment is full compensation for cure and seal treatment for concrete sidewalk concrete curb and gutter and concrete median nose.

45. Furnish and Install Video Detection Cable, Item SPV.0090.03

A Description

This special provision describes furnishing and installing Video Detection Cable.

B Material

Contact Matt Allwood with Traffic Control Corporation (TCC) at mallwood@tcc1.com or (651) 775-8976 for purchasing the proper video detection cable from TCC.

C Construction

Install the video detection cable according to the plans from the existing autoscope camera to the cabinet. Provide an extra 6-foot loop of cable in each pull box. Provide an extra 12-foot loop of cable at locations provided by the project electrician. All open field ends shall be taped and covered with a sealant according to standard spec 655.3.1.

Mark the cabinet end of the video detection cable appropriately to indicate the equipment label (i.e., V1, V2, etc.) in the traffic signal control cabinet. Neatly coil a minimum of 15-ft of extra cable in the traffic signal cabinet for connection to the traffic signal cabinet equipment.

D Measurement

The department will measure Furnish and Install Cat-5E Cable 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.0090.03	Furnish and Install Video Detection Cable	LF

Payment is full compensation for furnishing and installing Video Detection Cable; for furnishing and installing all connectors, including wire nuts, splice kits, tape, insulating varnish or sealant.

46. Sewer Field Quality Control – Televising, Item SPV.0090.04

A Description

This special provision describes the process for performing televising on sewer pipe for field quality control.

Televising shall be completed on all installed storm sewer piping. Sanitary piping shall have separate televising pay items.

B Materials

Televising pipe shall be free of dirt and foreign materials prior to testing.

All services performed and products delivered shall comply with the standards of the Pipeline Assessment and Certification Program (PACP) as administrated by National Association of Sewer Service Companies (NASSCO). All inspections performed require submittal of digital video, televising report, and database output in PACP format. Field inspection personnel shall be NASSCO PACP certified.

1. Digital video and a televising report shall be submitted for each inspection. Analog video is not acceptable under this specification. Black and white video does not meet the requirements of this specification.
2. The video shall be produced such that the display indicates the date of televising, line number, direction of travel, and relative position (footage count) of the camera for the duration of televising.
3. The video shall be produced with a “crawler” or “tractor” type camera, or other device approved by the City of Superior, so that the camera retains a generally vertical alignment.
4. The device shall maintain the camera near the center of the pipe being inspected.
5. The resolution, lighting, and contrast shall be adequate to capture details within the pipe.
6. The use of “pan and tilt” is required for all inspections.
7. Inspection videos shall be saved in a video format supported by Windows Media Player or VLC Media Player.
8. An electronic report (.pdf) of the pipe inspection report shall be submitted for each inspection.
9. A database containing the PACP inspection data shall be submitted.
10. All materials described in numbers 7-9 shall be submitted on a portable hard drive, compact disc or other means as approved by Owner.

C Vacant

D Measurement

Sewer Field Quality Control – Televising will be measured by lineal foot successfully completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.04	Sewer Field Quality Control – Televising	LF

Payment is full compensation for all materials and personnel to complete the testing. The Contractor will receive no additional compensation for corrective work necessary to correct defects found during televising.

47. Remove Steel Gas Main, Item SPV.0090.41

A Description

This special provision describes removing existing abandoned gas piping and appenditures and disposing of resulting materials.

Owner shall hire an outside testing firm (ACCT). Contractor will need to coordinate the removal work of the existing 12" coated steel gas pipe with ACCT as described below.

B Materials

C Construction

Remove the existing abandoned gas piping and appenditures at locations as shown on plans and wherever encountered on the project. All removed items shall become the property of the Contractor. Contractor shall not reuse any removed items on this project without the written consent of the Engineer. All materials shall be disposed of properly and in accordance of all laws and regulations.

Gas piping is expected to range from 12" coated steel to 1/2" steel services. There are multiple vintages of gas piping within the construction limits and noted below.

- Pre 1959 vintage cast iron and/or steel. These lines include an old main system which runs parallel to the street and old steel service lines that run into the properties. Care must be taken when excavating and removing the old service lines as some still extend into buildings. These lines will need to be located, cut and capped outside of the excavation zones. This piping can be disposed of as the contractor chooses.
- Post 1959 coated steel mains and services. These lines were abandoned in 2023. The services can be removed and disposed of as the contractor chooses. The 12" coated main has a thin layer of coating that does contain asbestos. The contractor will need to coordinate work efforts on this piping with ACCT. The contractor will need to excavate around the piping to allow for ACCT to remove and dispose of an area of the coating at approximately 16' increments. Once the area of coating is removed by ACCT then the contractor can cut the pipe into 16' sections and place the pipe segments into an open top dumpster which will be provided by ACCT
- New gas piping – 2023 installed 8" HDPE and 3/4" HDPE services. As noted in the plans, there are parallel running 8" HDPE gas mains running approximately under the existing sidewalks with services coming off of each running to the properties. These shall be protected at all times.

Unless otherwise provided, use excavated material in backfilling excavations made in removing gas piping.

Backfilling: Fill all trenches resulting from the removal of gas piping with satisfactory soil. Place backfilling material in layers not more than 8 inches in thickness except that granular material may be placed in layers not more than 12 inches in thickness. Thoroughly compact each layer by means of approved tampers, rollers, or vibrators. If there is water in an excavation, perform backfilling operations so that such water is displaced by the backfill and not trapped within backfill.

D Measurement

The department will measure Remove Gas Main by length in lineal feet for only the 12" coated gas main. All other gas piping removed shall be considered incidental to the project.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.41	Remove Steel Gas Main	LF

Payment is full compensation for coordinating with ACCT for the removal of the Coated Steel Gas Piping including excavating around the pipe, cutting at approximate 16' lengths, removing the piping from the ground and placing in provided dumpsters, all excavation, backfilling; and for all labor, tools, equipment and incidentals necessary to complete the work.

48. Water Main and Fittings, 8-Inch HDPE DR-11, Item SPV.0090.42; Water Main and Fittings, 12-Inch HDPE DR-11, Item SPV.0090.43

A Description

This special provision describes furnishing and installing water main and fittings as shown on the plans and described by these specifications.

B Materials

1. HDPE Pipe and Fittings

- b. Water main shall be polyethylene pipe conforming to ASTM 3035 and AWWA C906-07, Polyethylene (PE) Pressure Pipe and Fittings, fused-type suitable for use on ductile iron pipe size (DIPS) HDPE pipe.
- c. Couplings used for water mains and branch services shall be electrofusion type. Couplings used for tap services may be electrofusion or socket type.
- d. Pipe shall be new or stored for a period of time that does not exceed the manufacturer's recommended maximum period of exposure, regardless of the method of storage.
- e. Shop drawings for HDPE pipe must specify minimum allowable pipe deflection radius.
- f. Fittings: Molded fittings shall be used on all bends and tees. Any use of non-molded fittings shall be preapproved by the Engineer and SWL&P.

2. HDPE Transition Couplings and Adapters

- a. The HDPE by MJ Adapters shall be manufactured by Central Plastics Company or equal. The adapter shall comply with AWWA C906 and be manufactured for use on pipe conforming to ASTM D2513, D3035 and F-714. The adapter shall be molded from a PPI and NSF listed pre-blended virgin resin in accordance with the material specifications listed in ASTM D3350 with a cell classification of 34F464C and be compatible for heat fusion with any pipe manufactured from a like or similar resin. Adapters shall be tested according to ASTM D1599 and ASTM D1598. HDPE Adapters shall be sized for use with ductile iron pipe size HDPE pipe. Adapters shall be used for all transitions from HDPE to valves, hydrants or ductile iron pipe.
- b. All bolts to be used on the ductile iron mechanical joint fittings shall stainless steel and be supplied with zinc anode caps conforming to ASTM B-418 for regular anode size. All gate valves and hydrants bolts and nuts shall be stainless steel.

C Construction

C.1. General

Install water main and fittings in accordance with Chapters 4.1.0, 4.2.0, 4.3.0, 4.7.0 and 4.9.0, *Wisconsin Water and Sewer Specifications*, and the requirements of these specifications. *Wisconsin Water and Sewer Specifications* Section 4.4.2.c does not apply; lead joints are not permitted.

Protect all water main fittings components in accordance with Chapter 4.9.3, *Wisconsin Water and Sewer Specifications*.

Install buttresses and/or thrust blocks for all water main fittings as outlined in Chapter 4.3.13 of the *Wisconsin Water and Sewer Specifications*.

Minimum cover from the top of pipe shall be no less than 7.5 feet, unless approved by the engineer. Upon approval of the engineer for cover less than 7.5 feet, furnish and install two (2) layers of 2-inch polystyrene insulation, with the longitudinal and transverse joints offset by a minimum of one 1 foot. Insulation used in this application will be paid as insulation board per square yard.

C.2. Blocking of HDPE Pipe

All plugs, caps, tees, bends and other thrust points shall be provided with concrete blocking if there is an unstrained joint within thirty six (36) feet of the thrust point. Blocking is not required when all joints within thirty six (36) feet are restrained or fused.

When required, concrete blocking shall be installed per the Standard Details.

C.3. Locating Wire

Locating (tracer) wire shall be installed on all plastic water mains and services per Chapter 4.3.14, Wisconsin Water & Sewer Specifications. Locating wire shall be connected to existing metal pipes at watermain connection points.

C.4. Pipe Protection

No open ends of water main pipe will be allowed for more than one hour on any pipe section. Caps shall be mechanically attached to the end of the pipe. Taping and bagging the end of the pipe will not be allowed. The Contractor shall weight the pipe as necessary to prevent floatation.

C.5. Qualifications for Joining HDPE Water Main Pipe

Before being permitted to make joints on the HDPE water main pipe, all joiners shall perform a test fuse while being observed by a Superior Water, Light and Power employee or designated representative.

C.6. Fusion Joining of HDPE Water Main and Service Pipe

All HDPE water main pipe and fittings shall be joined by butt fusion or electrofusion procedures. Water branch or tap service pipe of any diameter shall be joined by butt fusion or electrofusion procedures except where approved by the Engineer. Socket couplings may also be used on tap service pipe where approved the Engineer.

The use of electrofusion couplings shall be minimized. Electrofusion couplings may not be installed directly on HDPE fittings. All fittings must have a minimum of 2'-0" of HDPE pipe butt fused directly to the fitting prior to installation of an electrofusion coupling.

All pipe fusing shall be in accordance with ASTM F2620-12

The butt fusion equipment used in the joining procedures should be capable of meeting all conditions recommended by the pipe manufacturer, including, but not limited to, temperature requirements of 400-450 degrees Fahrenheit, alignment, and an interfacial fusion pressure of 75 PSI. The butt fusion joining will produce a joint weld strength equal to or greater than the tensile strength of the pipe itself.

All field welds shall be recorded and logged by an electronic monitoring device (data logger) connected to the fusion machine. The following as-recorded data shall be provided to SWL&P:

- Approved data logger device reports
- fusion joint documentation containing the following information
 1. Date & time
 2. Joint number
 3. Fusion technician identification
 4. Pipe diameter and thickness
 5. Fusion, heating, and drag pressure settings
 6. Heat plate temperature
 7. Heating and cool down time of fusion
 8. Graph of the fusion cycle
 9. Ambient temperature
 10. Joint location
 - a. This shall be done by working with SWL&P field personnel.

C.7. Deflection

If failing to adequately deflect pipe within allowable tolerances in anticipation of a change in grade, furnish and install any necessary fittings to provide the required cover over the water main. Provide and install fittings at no additional cost.

C.8. Separation Distances

C.8.1. Horizontal Separation

Water mains shall maintain a minimum horizontal distance of eight (8) feet between any existing or proposed sanitary sewer main, storm sewer main, or sanitary or storm sewer manhole. The distance shall be measured center to center.

Water mains shall maintain a minimum separation distance of one (1) foot between any gas main or service line. Where this can not be met contractor shall notify engineer.

C.8.2. Vertical Separation

If water mains cross over sanitary or storm sewer mains, the water main shall be laid at such an elevation that the bottom of the water main is at least 6 inches above the top of the sewer main. If water main

cross under sanitary or storm sewer mains, a minimum vertical separation distance of eighteen (18) inches shall be maintained between the top of the water main and the bottom of the sewer main. At crossings, one full length of water pipe shall be centered above or below the sewer so that both joints will be as far from the sewer as possible.

C.9. Backfilling and Compaction of Native Material

Compact native material by using a sheep's foot and placing the soil in 12 inch-18 inch lifts. The upper three (3) feet of trench shall be compacted to a standard Proctor density of 100 percent and the area under the upper three (3) feet shall be compacted to a standard Proctor density of 95 percent. No substitutions of compacting equipment are allowed unless specifically permitted by the engineer. All compaction and compliance testing is considered incidental.

C.10. Quality Control

C.10.1. Hydrostatic tests

Perform all hydrostatic tests in accordance with Chapter 4.15.0, *Wisconsin Water and Sewer Specifications*.

C.10.2. Electrical Conductivity

Test tracing wire continuity after installation of pipe.

C.11. Disinfection of Water Main

Disinfect all water mains in accordance with Chapter 4.16.0, *Wisconsin Water and Sewer Specifications*, except as modified herein:

1. Chapter 4.16.5 shall be modified that sampling and testing, including costs thereof, are the Contractor's responsibility. Sample testing shall be coordinated and completed using the Superior Water, Light and Power utility lab.
2. Swab connections to existing water mains that must be placed back in service with a chlorine solution as approved by the engineer.

D Measurement

The department will measure Water Main, of each size, along the axis of the pipe in lineal feet in place. Segments between valves, fittings, and hydrants will be measured from the center of valves, fittings, and hydrants with no deductions. All lengths will be measured in a horizontal plane unless the grade of the pipe exceeds fifteen (15) percent.

Furnishing and placing all fittings including labor, equipment, and incidentals are considered incidental and part of the water main measurement and payment. All required water main testing is considered incidental and part of the water main measurement and 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.0090.42	Water Main and Fittings, 8-Inch HDPE	LF
SPV.0090.43	Water Main and Fittings, 12-Inch HDPE	LF

Payment is full compensation for furnishing and placing all material; and for all tools, labor, equipment, and incidentals necessary to complete the work. In addition, backfill, compaction, stabilizing aggregate, testing and disinfection are considered incidental to the unit prices for water main.

49. **Water Service, 1-Inch HDPE, Item SPV.0090.44; Water Service, 2-Inch HDPE, Item SPV.0090.45**

A Description

This special provision describes furnishing and installing new high density polyethylene water services as shown on the plans and described by these specifications.

B Materials

All water service tubing shall meet the requirements of Chapter 8.24.0, *Wisconsin Water and Sewer Specifications* and the requirements herein:

1. HDPE Pipe and Fittings
 - a. Water service shall be polyethylene pipe conforming to ASTM 3035 and AWWA C906-99, Polyethylene (PE) Pressure Pipe and Fittings, 4 inch through 63 inch, for Water Distribution. Pipe furnished shall be approved for potable water and marked to indicate so with a continuous blue stripe. Pipe and fittings shall be PE3408, HDPE Pressure Class 160, SDR 11, and have outside diameters similar to ANSI A-21.51 ductile iron pipe. Joints and fittings shall be butt heat fusion type, ASTM D3261. Ends shall be plain for butt fusion joining. All fittings shall be molded polyethylene fused-type suitable for use on ductile iron pipe size (DIPS) HDPE pipe.
 - b. Couplings used for branch services shall be electrofusion type. Couplings used for tap services may be electrofusion or socket type.
 - c. Pipe shall be new or stored for a period of time that does not exceed the manufacturer's recommended maximum period of exposure, regardless of the method of storage.
 - d. Shop drawings for HDPE pipe must specify minimum allowable pipe deflection radius.

C Construction

Perform all water service work in accordance with Chapters 5.5.0 and 5.6.0, *Wisconsin Water and Sewer Specifications*. Test all connections for leaks immediately after installation in the presence of the engineer or Superior Water, Light & Power..

Provide a minimum of seventy two (72) hours of notice, in writing, prior to disconnection of residents from water service or placement on temporary service. Coordinate with the engineer and Superior Water, Light and Power all scheduled disconnections and conversions to temporary service.

Disinfect water services by filling each service with a 50 parts per million chlorine solution and then flushing the service before connecting it to the building.

HDPE water service pipe shall be butt fused to the tapping tee with electrofusion saddle. The tapping tee with electrofusion saddle shall be as manufactured by Central Plastics Company or approved equal.

C.1. Quality Control

C.1.1. Hydrostatic tests

Perform all hydrostatic tests in accordance with Chapter 4.15.0, *Wisconsin Water and Sewer Specifications*.

C.1.2. Electrical Conductivity

Test tracing wire continuity after installation of pipe.

C.1.3 Disinfection of Water Main

Disinfect all water mains in accordance with Chapter 4.16.0, *Wisconsin Water and Sewer Specifications*, except as modified herein:

1. Chapter 4.16.5 shall be modified that sampling and testing, including costs thereof, are the Contractor's responsibility. Sample testing shall be coordinated and completed using the Superior Water, Light and Power utility lab.
2. Swab connections to existing water mains that must be placed back in service with a chlorine solution as approved by the engineer.

D Measurement

The department will measure Water Service of each material and size by length in linear feet from center of water main to end of water service complete and in place. All required water main testing is considered incidental and part of the water main payment.

Placement of tracer wire will be considered as incidental.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.44	Water Service, 1-Inch HDPE	LF
SPV.0090.46	Water Service, 2-Inch HDPE	LF

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

50. Temporary Bypass System, Item SPV.0105.30

A Description

Summary

- A. Temporary utility services and facilities including, but not limited to:
 - Temporary conveyance of sewage to divert flow from the existing pipeline.
 - Temporary conveyance of sewage where construction impacts sewer service.
 - Temporary water where construction impacts water service.

System Description

- A. Maintain continuous flow of sewage at all times unless otherwise indicated. Provide all necessary equipment, temporary installations, temporary storage vessels and operation personnel to accomplish diversion of sewage around construction area for the time necessary to accomplish the Work. All wastewater shall be rerouted to the existing pipeline as indicated on the drawings to allow for continuous operation of the facilities until the Work is complete.
- B. The Contractor shall be responsible for damage caused by sewage backup due to the Contractor's operations.
- C. Do not discharge sewage to a storm sewer, stream, or street. The Contractor shall be responsible for all fines that may result from unauthorized discharge of sewage.

Project Conditions

- A. The Contractor shall provide for temporary conveyance at all commercial properties when the shutdown is expected to take more than 4 hours.
- B. All discharge pipes within a roadway right-of-way must be protected from vehicle traffic using traffic channelizing devices or steel ramps.
- C. One main pump and one back-up pump that are able to handle temporary conveyance flows shall be onsite at all times.
- D. See flow data for the project in the Appendix of the project manual.

Submittals

- A. Submit a detailed proposed method for temporary diversion of sewage around, or through the areas where flows are impacted by construction. The proposed method shall include size and material of diversion piping. The submittal shall contain the following information as minimum requirements:
 - 1. The system layout including means, methods, and products for bulkheading existing pipe(s), connection to the existing pipe(s), and diversion piping.
 - 2. Pump capacities and discharge conditions.
 - 3. Traffic control plan (signing and barricades) approved by local authorities.
 - 4. Schedule for flow transfers and service interruptions for properties.
 - 5. Name address and phone number for emergency contact during temporary pumping. Person must be within 15 minutes of site to respond.
 - 6. Emergency spill response plan
 - a. This plan shall be submitted no less than one month prior to the expected date of the start of temporary conveyance.

Quality Assurance

- A. Comply with requirements of local laws and regulations governing construction and local industry standards, in the installation and maintenance of temporary utilities and related services.
- B. The Emergency Spill Response Plan shall include as a minimum requirement:
 1. A list of spare equipment that will be available on-site.
 2. A list of actions that will occur in the case of a spill including notifications, work by the emergency response team, cleanup activities, corrective actions, and preparation of a report.
 3. Telephone List and order of contact

B Materials

Materials and Equipment

- A. Provide all required materials and equipment for temporary utilities, services, and facilities.
- B. Used materials and equipment may be used, if acceptable to Engineer.
- C. Provide only materials and equipment that are suitable for intended use and comply with appropriate standards.

C Construction

General

- A. Minimize the length of time sewage is diverted. Do not begin diversion of sewage without the Owner's approval. Do not begin diversion of sewage until all equipment and materials necessary for the installation of the temporary facility are on site.
- B. Contractor shall have one staff member on duty (attendant) at all times during temporary conveyance of wastewater (24 hours per day, 7 days per week). Attendant will continually monitor equipment and piping, and will have a functioning cell phone. Attendant shall have received training on the operation and troubleshooting of the equipment, and shall follow Emergency Spill Response Plan in the event of a bypass. Attendant shall submit weekly maintenance logs and homeowner and business notifications information to the Owner.
- C. Notify the Engineer and Owner in writing 5 working days in advance of a planned connection or shut down.
- D. The Engineer and Owner will cooperate with the Contractor to assist in conducting any time duration testing the Contractor may feel is necessary to confirm the length of shut down time available.
- E. Coordinate the shutdown and connection of the diversion piping connection with the local community utility staff.

Installation

- A. The temporary diversion system utilized during construction shall comply with the following requirements and conditions:
 1. Provide all temporary connections, parallel temporary lines, temporary power, temporary bulkheads, and temporary operations necessary to perform work.
 2. The pipe and fitting materials shall have physical and strength characteristics sufficient to handle the indicated flow conditions.
 3. The assembled system shall be capable of withstanding the thrust forces generated by the flow.
 4. Temporary piping shall be constructed/located to minimize the disturbance to the existing vehicular and pedestrian traffic patterns. Where the temporary transmission line crosses heavily traveled areas for periods it will be constructed below grade with a steel plate cover placed over it.
 5. The temporary system shall be monitored until flow transfer into the newly constructed pipe is accomplished.
 6. Sewer services affected by the diversion shall be maintained.
 7. The Contractor shall make all necessary provisions and take all necessary steps to ensure the uninterrupted operation of the temporary diversion facilities.

- B. Upon completion of the work and flow transfer into the new facilities, the temporary diversion system will be removed and all affected surface improvements shall be restored to a condition equal to or better than the condition existing prior to construction.

D Measurement

The department will measure temporary Bypass System as a lump sum. This includes multiple sites within the project area.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.30	Temporary Bypass System	LS

Payment is full compensation for for all material, labor and equipment necessary to provide temporary conveyance including the following items:

- a. Temporary conveyance piping,
- b. Temporary conveyance pumps,
- c. Providing, testing, operating and maintaining the temporary conveyance piping and pumps,
- d. Providing 24-hour security and monitoring of the temporary conveyance piping and pumps,
- e. Spare parts,
- f. Redundant mechanical and isolation equipment,
- g. Air release valves,
- h. Plugs,
- i. Temporary conveyance of laterals and connections,
- j. Temporary conveyance of sanitary sewer,
- k. Draining, cleaning and removal of the temporary conveyance pipes and pumps,
- l. Reconnection to the sanitary sewer,
- m. Removal of surface improvements for temporary conveyance,
- n. Temporary patching of surface improvements, pipe flushing and finish grading,
- o. Providing, maintaining and removing steel casing pipe to be placed on surface including carrier pipe support system and casing pipe,
- p. Final surface restoration,

51. Temporary Water Service, Item SPV.0105.40

A Description

This special provision describes the providing of the temporary water service to all existing connections.

All homes and businesses shall have continuous water service other than minor (two hour) shutdowns for new service connections.

Submit temporary water plan for Engineer and Superior Water, Light and Power approval prior to installation.

B Materials

All materials used to supply temporary water shall meet all applicable *Wisconsin Water and Sewer Specifications*. Used materials and equipment may be used if properly sanitized and approved by Engineer and Superior Water, Light and Power.

Provide only materials and equipment that are suitable for intended use and comply with appropriate standards.

Temporary water service piping shall be at sized and pressures adequate for construction purposes and where shut-off nozzles are used at water hose discharge provide heavy-duty abrasion-resistant hose with a pressure rating greater than the maximum pressure of the water distribution system.

Backflow prevention is required on all temporary service connections.

C Construction

Maintain distribution system to avoid damage to existing or new construction.

Avoid damage to permanent plumbing at source of temporary water and at private connections.

Follow manufacturers recommended installation of all temporary water service piping.

Contractor to notify Superior Water, Light & Power and affected properties 72 hours prior to any shutdowns. If shutdown will last more than two hours, Contractor shall obtain permission from Superior Water, Light & Power for extended length of shutdown.

D Measurement

The department will measure temporary water service connection as each.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.40	Temporary Water Service	Lump Sum

Payment is full compensation for furnishing and installing all materials; and for all tools, labor, equipment, and the removal when no longer needed, and incidentals necessary to complete the work.

52. Brush Pattern & Coloring of Concrete Sidewalk 6-Inch, Item SPV.0165.03

A Description

This special provision describes brushing and coloring concrete sidewalk.

B Materials

B.1 Expansion Joint Filler

Materials shall conform to section 415.2.4 of the standard specifications.

B.2 Concrete Color and Pattern

Concrete to be integrally colored with either a Davis Color, L.M. Scofield or approved equal product. Color to be WisDOT Red Color or Cool Gray with a 12'x12' sample of each color provided to the Landscape Architect or engineer in the field or review and approval prior to ordering product. Color shall conform to Section 405 of the standard specifications.

WisDOT Red Color or Cool Gray pattern to be an alternating stiff broom finish with a smooth trowel "picture box" finish.

C Construction

C.1 Mockup

Match pattern used on all other corners of Hammond Avenue and Belknap Street.

C.2 Finish

Under the Brush Pattern & Coloring of Concrete Sidewalk 6-Inch bid Item, construct alternating smooth and broom finished concrete apron conforming to the requirements in section 602.3.2 of the standard specifications.

C.3 Joints

Use joint to separate a smooth or broom finished surface, with score joints as indicated on plans using 1/2" wide by 1/4" depth of the finished apron. Score joints to run perpendicular to each other on the median noses and perpendicular to the curb. Saw cut on scored joints to 1/3 depth of concrete.

D Measurement

The department will measure Brush Pattern & Coloring of Concrete Sidewalk 6-Inch bid Item by the square foot of Brush Pattern & Coloring of Concrete Sidewalk 6-Inch acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0165.03	Brush Pattern & Coloring of Concrete Sidewalk 6-Inch	SF

Payment is full compensation for providing all materials, including forms, expansion joints, scoring joints, color admixture and finish pattern; for excavating and preparing the foundation; backfilling and disposing of surplus material; for placing, finishing, protecting, and curing, and restoring the work site.

53. Landscape Planting Surveillance and Care Cycles.

If the care specialist fails to perform any of the required care cycles as specified in standard spec 632.3.19.1, the department will assess daily damages in the amount of \$750 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.

The plant establishment period shall be two growing seasons.

54. Bee Lawn, Item SPV.0180.01; Bee Lawn Seed Water, SPV.0120.01

A Description

This special provision describes work in accordance with sections 630 and 632 of the standard specifications, and as hereinafter provided.

This special provision describes furnishing, installing, watering and maintaining for a period of two years Bee Lawn for the purposes of establishment of a low-input lawn, able to provide high-quality food for bees and pollinators.

B Materials

Furnish Bee Lawn Seed Mix, basis of design: Bee Lawn Seed Mix, Twin City Seed Co, Edina, MN, 952-944-7105, or approved equal.

TABLE 1 – BEE LAWN SEED MIX

SEED COMPONENT	PERCENTAGE OF SEED
Boreal Creeping Red Fescue	23.5%
Intrigue Chewings Fescue	23%
Gladiator Hard Fescue	23%
Blue Mesa Sheep Fescue	23%
White Dutch Clover	4.5%
Creeping Thyme	0.4%
Self-Heal	2.6%

C Construction

Seeding

1. Apply a starter fertilizer along with, or immediately following seeding.
2. For dormant seeding in the late fall (recommended) no irrigation is required. If seeded in the spring, irrigation will be required for the first 30 days to aid in establishment.
3. Sow seed at a rate of 5 pounds per 1000 square feet.

Maintenance:

1. Mowing: mow regularly; 1-3 times/month. Allow vegetation to grow to at least 2.5 inches to encourage blooms.
2. Fertilizer: once established, no additional fertilizer is needed.
3. Weeds: refrain from using broad spectrum herbicides, which will kill bee lawn flowers. Hand weeding or spot treatment is required.

Watering:

1. During first week, irrigate several times each day to keep the soil moist, applying three times daily for a rate of 0.10" of water during each irrigation cycle.

2. Following germination, reduce irrigation to 2x daily for one week, followed by 1x daily until irrigation can be withheld. Irrigation schedule assumes no rainfall events, withhold irrigation when rainfall is sufficient.
3. Monitor for drought stress. Apply supplemental irrigation as necessary for bee lawn health.

D Measurement

The department will measure Bee Lawn by the SY acceptably completed.

The department will measure Seed Water by the 1000 gallons acceptably completed, measured as the volume of tanks of known capacity.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0180.01	Bee Lawn	SY
SPV.0120.01	Bee Lawn Seed Water	MGAL

Payment for the Bee Lawn is full compensation for providing, handling, and storing seed; for providing the required culture and inoculating seed as specified; and for preparing the seed bed, sowing, covering, and firming the seed.

Payment for Bee Lawn Seed Water is full compensation for watering seed.

14. CONTRACT CHANGE ORDER

**Hammond Avenue
N 21st Street – Belknap Street**

Change Order No. _____

Contractor: _____

Item No.	Description of Change	DECREASE in contract price	INCREASE in contract price
-----	Total DECREASE in contract price		XXXXXXXXXX
-----	Total INCREASE in contract price	XXXXXXXXXX	
-----	NET decrease/increase in contract price	-	+

The current contract total is \$ _____. The sum of \$ _____ is hereby added to/ deducted from the total contract price and the total adjusted contract price is thereby \$ _____.

Change orders over \$5,000.00: City Finance Department Initial: _____

The time provided for completion of the contract is (check one):

- unchanged
- increased by _____ calendar/working days
- decreased by _____ calendar/working days

Necessity for change:

This document shall become an amendment to the contract and all provisions of the contract will apply hereto.

Change order recommended by: _____ Date: _____
(owner, architect, contractor - circle one)

Change order accepted by: _____ Date: _____
(contractor)

Change order approved by: _____ Date: _____
(owner - City of Superior)

PROJECT SIGNS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Provide 1 Project identification sign.
 - 2. Provide 1 Building a Better America sign.
- B. Related Sections:
 - 1. Section 01 33 00 - Submittal Procedures

1.02 DESIGN REQUIREMENTS

- A. Project identification sign to be professionally designed and lettered sign including the following information:
 - 1. Name of Project, 3-inch-high letters.
 - 2. Name of Owner, 1-3/4-inch letters.
 - 3. Name of Financier, 1-3/4-inch letters.
 - 4. SEH, Chippewa Falls, 1-3/4-inch letters.
 - 5. Name of Contractor, 1-3/4-inch letters:
 - a. Address.
 - b. Phone Number.
 - 6. Rental Information: Telephone Number, 1-3/4-inch letters.
- B. Building a Better America sign to be professionally designed and lettered sign including the following information:
 - 1. The Bipartisan Infrastructure Law, 5-inch letters.
 - 2. Building A Better America Emblem, 15-inch height logo.
 - 3. Community Pictograph, 7-inch height logo.
 - 4. Wisconsin Department of Natural Resources Pictograph, 7-inch height logo.
 - 5. US EPA Pictograph, 7-inch height logo.
 - 6. Sign to comply with Bipartisan Infrastructure Law (BIL) signage requirement. BIL signage requirement can be found at the following web address:
<https://dnr.wisconsin.gov/sites/default/files/topic/Aid/loans/BILsignageReqPacket.pdf>

1.03 SUBMITTALS

- A. Submit Shop Drawings showing content, layout, lettering, colors, sizes, and grades of members.

City of Superior, Wisconsin

PART 2 PRODUCTS

2.01 MATERIALS

- A. Structure and Framing: Wood or Metal, structurally adequate. Use of recycled or recovered materials is encouraged.
- B. Sign Surfaces: Exterior grade plywood with medium density overlay, minimum 3/4-inch-thick standard large sizes to minimize joints.
- C. 6-foot by 4-foot.
- D. Rough Hardware: Galvanized.
- E. Paint and Primers: Exterior quality, 2 coats; sign background of color as selected.
- F. Lettering:
 - 1. Pre-cut vinyl self-adhesive products.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install at Project entrance location as shown on Drawings or designated by Engineer.
- B. Install signs within 30 days after date fixed by Notice to Proceed.
- C. Erect supports and framing on secure foundation, free standing, rigidly braced and framed to resist wind loadings of 50 mph.
- D. Install sign surface plumb and level, with butt joints. Anchor securely.
- E. Paint exposed surfaces of sign, supports, and framing.

3.02 MAINTENANCE

- A. Maintain signs and supports clean. Repair deterioration and damage.

3.03 REMOVAL

- A. Remove signs, framing, supports, and foundations at completion of Project and restore area.

END OF SECTION

Investing in America Signage Packet

This packet is designed to help projects that are required to comply with the Investing in America Signage requirement design a compliant and customized sign.

The packet contains four elements:

- Investing in America Term and Condition
- White House Investing in America Signage Guidelines
- EPA Logo Guidance
- DNR Logo Guidance

Investing in America Signage Required Term and Condition

1. Signage Requirements

a. Investing in America Emblem: The recipient will ensure that a sign is placed at construction sites supported in whole or in part by this award displaying the official Investing in America emblem and must identify the project as a “project funded by President Biden’s Bipartisan Infrastructure Law” or “project funded by President Biden’s Inflation Reduction Act” as applicable. The sign must be placed at construction sites in an easily visible location that can be directly linked to the work taking place and must be maintained in good condition throughout the construction period.

The recipient will ensure compliance with the guidelines and design specifications provided by EPA for using the official Investing in America emblem available at: <https://www.epa.gov/invest/investing-america-signage>.

b. Procuring Signs: Consistent with section 6002 of RCRA, 42 U.S.C. 6962, and 2 CFR 200.323, recipients are encouraged to use recycled or recovered materials when procuring signs. Signage costs are considered an allowable cost under this assistance agreement provided that the costs associated with signage are reasonable. Additionally, to increase public awareness of projects serving communities where English is not the predominant language, recipients are encouraged to translate the language on signs (excluding the official Investing in America emblem or EPA logo or seal) into the appropriate non-English language(s). The costs of such translation are allowable, provided the costs are reasonable.

2. Public or Media Events

EPA encourages the recipient to notify the EPA Project Officer listed in this award document of public or media events publicizing the accomplishment of significant events related to construction projects as a result of this agreement and provide the opportunity for attendance and participation by federal representatives with at least ten (10) working days’ notice.

The White House's Investing in America Signage Guidelines

The Investing in America Signage Guidelines details what is required on the signs and examples of compliant signs.

To download the Investing in America logo, go to <https://www.epa.gov/invest/investing-america-signage>. Scroll down to the Bipartisan Infrastructure Law Signs section.

INVESTING IN AMERICA

Investing In America Signage Guidelines

The Bipartisan Infrastructure Law

The CHIPS and Science Act

The Inflation Reduction Act

The American Rescue Plan



Guidelines for Logo Applications

The purpose of this document is to provide general guidelines for signs displayed at project sites for projects funded under the Bipartisan Infrastructure Law (also known as the Infrastructure Investment and Jobs Act), the CHIPS and Science Act, the Inflation Reduction Act, the American Rescue Plan, and other Federally-funded projects as appropriate. The first part of this document pertains to signs for Federally-funded projects that are not installed in the highway right-of-way. For highway signage guidance that is MUTCD compliant please see pages 13 and 14. For all other signs please start here. This document provides information about the Investing In America logo mark as well as how logos, marks and seals of states, cities, and counties can be incorporated into signage. Logos of contractors are not permitted on the signage. When logos are included in signage, the placement should conform to these brand guidelines.

Variations and Usage




There is one approved mark associated with the Investing In America logo. To preserve the integrity of the Investing In America logo mark, make sure to apply them correctly. Altering, distorting, or recreating the 'marks' in any way weakens the power of the image and what it represents. Layout and design of signs and communication materials will vary, so care must be taken when applying the logo mark.

Primary Logo Mark

INVESTING IN AMERICA

Colors

The colors, graphics, and fonts used should conform to graphic standards.

COLOR	CMYK	RGB	HEX	PMS
 Blue	83, 48, 0, 48	22 / 68 / 132	#164484	PMS 7687 C
 Red	0, 100, 81, 0	255 / 0 / 49	#FF0031	PMS 185 C
 White	2, 2, 0, 3	242 / 244 / 248	#F2F4F8	Bright White

Logos



White background: logo in red and blue

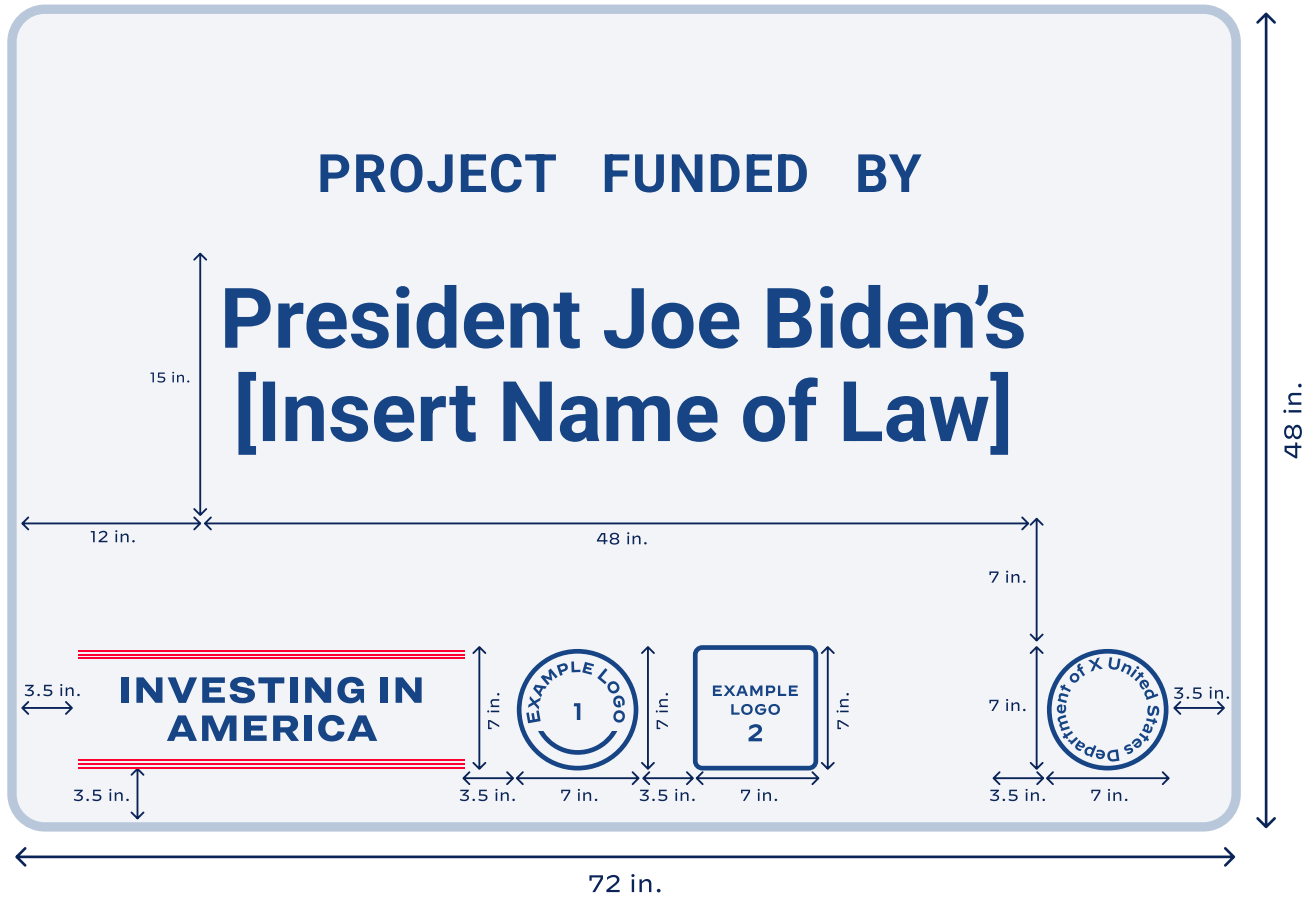


Gray background: logo in red and blue



Blue background: logo in all white

Investing In America General Guidelines for Logo Applications

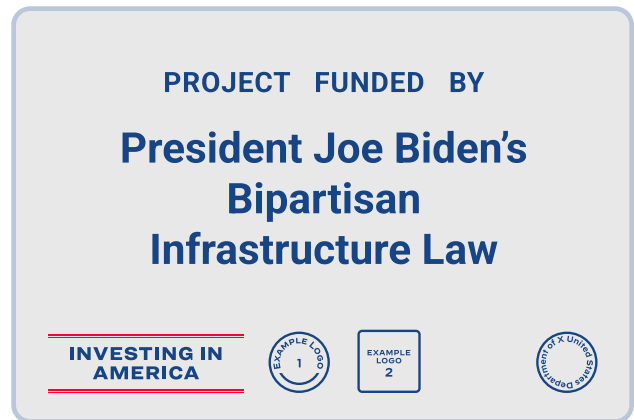


Sign Colors

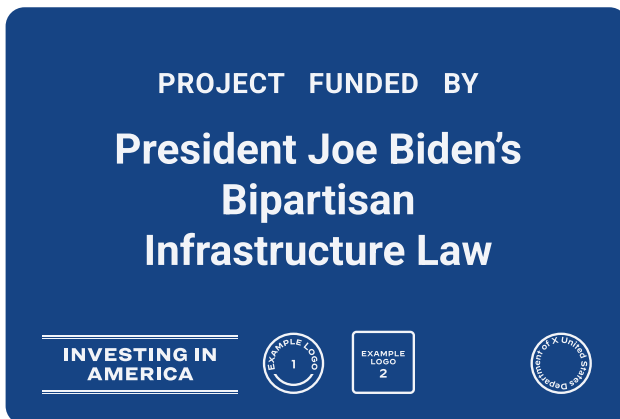
1. The Bipartisan Infrastructure Law



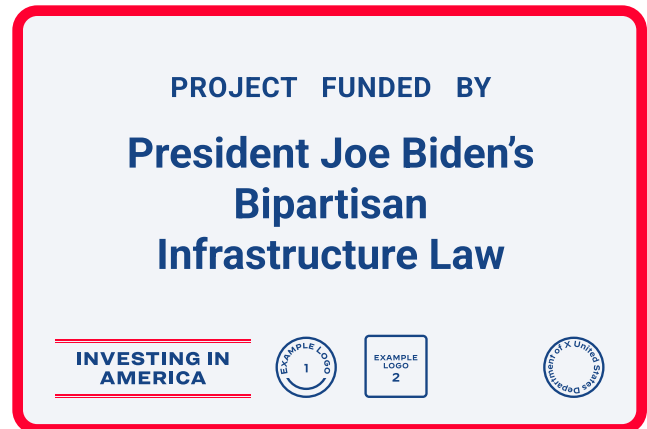
White



Gray



Blue



Red Border

State, City, and County Logo Variations



Square or Circular State Logo: 7x7 in.



Rectangular or Oval State Logo: **not** to exceed 17.5 x 7 in.

3 Logo Samples



Circular City Logo 7 x 7 in. State rectangular logo should **not** exceed 17.5 x7 in.



Rectangular State Logo: **not** to exceed 17.5 x 7 in.

2 Logo Samples

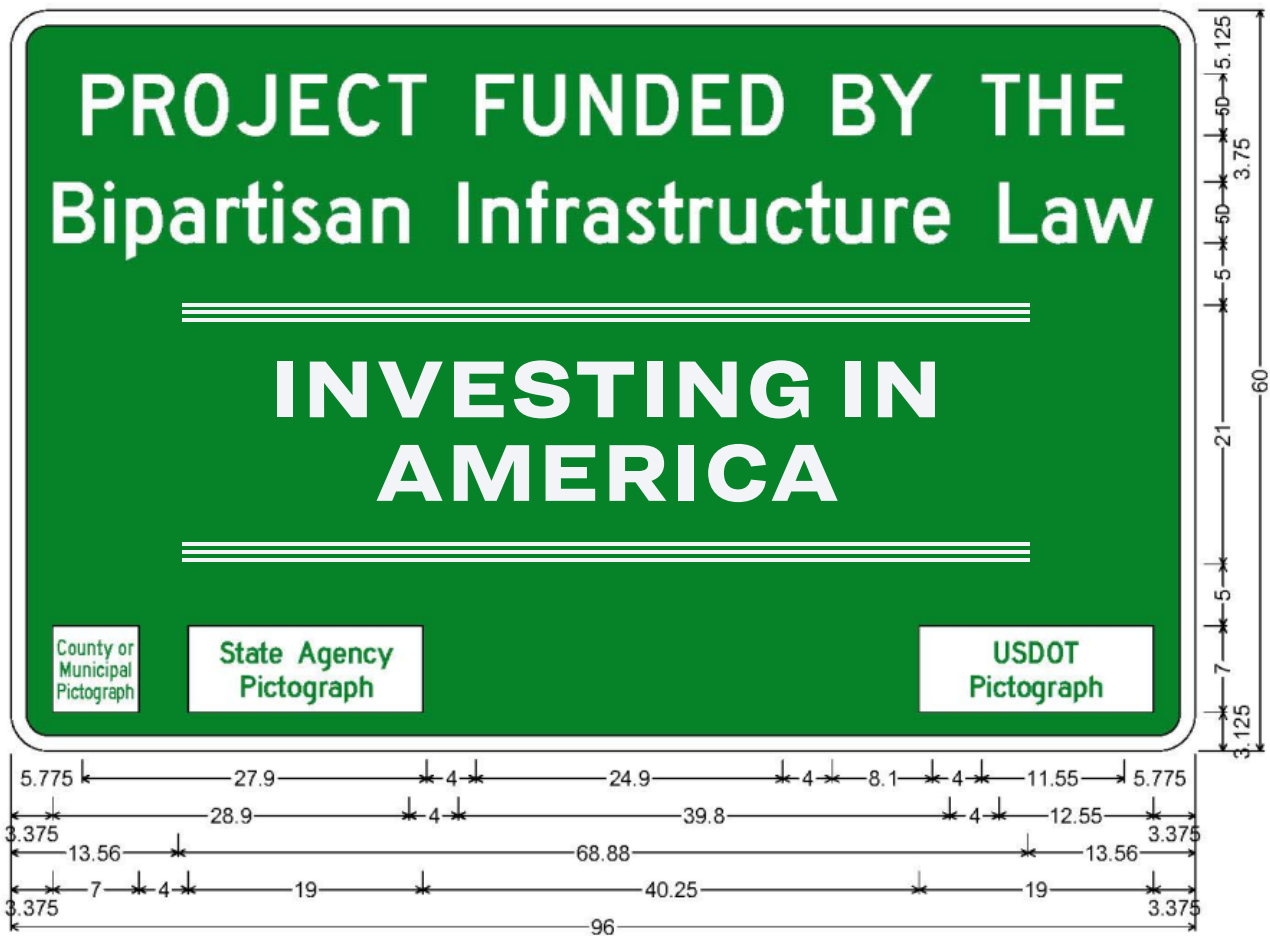


Circular State Logo: 7 x 7 in.

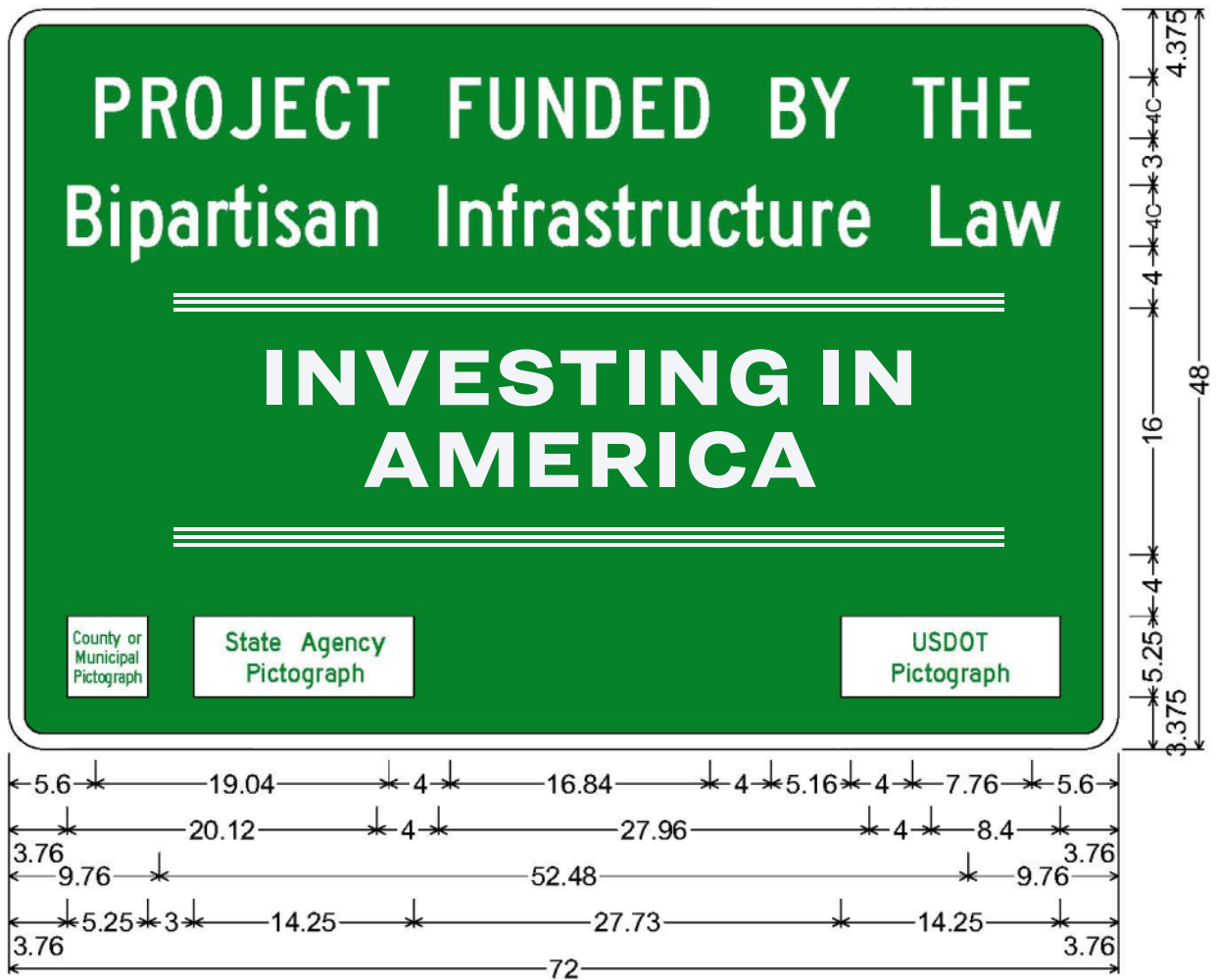


Rectangular State Logo: **not** to exceed 17.5 x 7 in.

Rules for Highway Right of Way Signage 8 Feet



Rules for Highway Right of Way Signage 6 Feet



"General Decision Number: WI20240010 01/26/2024

Superseded General Decision Number: WI20230010

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)(1).

<p>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:</p>	<ul style="list-style-type: none"> . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$17.20 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 2024.
<p>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:</p>	<ul style="list-style-type: none"> . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$12.90 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 2024.

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 <http://www.dol.gov/whd/govcontracts>.

BRWI0001-002 06/01/2023

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPLEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.18	25.88

BRWI0002-002 06/01/2023

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 47.10	25.16

BRWI0002-005 06/01/2023

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...	\$ 39.97	25.02

BRWI0003-002 06/01/2023

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.00	26.06

BRWI0004-002 06/01/2023

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.50	26.96

BRWI0006-002 06/01/2023

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE, ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.08	25.98

BRWI0007-002 06/01/2023

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.95	26.80

BRWI0008-002 06/05/2023		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.96	25.67

BRWI0011-002 06/01/2023		

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.00	26.06

BRWI0019-002 06/01/2023		

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.32	26.74

BRWI0034-002 06/01/2023		

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 41.56	26.19

CARP0068-011 05/02/2022		

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.....	\$ 41.19	27.05

CARP0264-003 06/05/2023		

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON
COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 41.91	29.72

CARP0310-002 06/05/2023		

Ashland, Bayfield, Forest, Iron, Langlade, Lincoln, Marathon,
Oneida, Shawano, Taylor and Vilas

Rates	Fringes
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CARPENTER.....	\$ 38.86	27.06
Piledriver.....	\$ 39.43	27.02

CARP0314-001 06/05/2023

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson,
Lafayette, Richland, Rock, Sauk and Walworth

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
Piledriver.....	\$ 39.43	27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 36.15	20.43

CARP0731-002 06/05/2023

Calumet (Eastern portion of the County), Fond Du Lac, Manitowoc
and Sheboygan

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
Piledriver.....	\$ 39.43	27.02

CARP0804-001 06/05/2023

Adams, Juneau, Portage and Wood

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
Piledriver.....	\$ 39.43	27.02

CARP0955-002 06/05/2023

Calumet (western portion of County), Fond Du Lac, Green Lake,
Marquette, Outagamie and Winnebago

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

CARP1056-002 06/01/2023

	Rates	Fringes
MILLWRIGHT.....	\$ 40.00	27.77

CARP1074-002 06/05/2023

Barron, Burnett, Chippewa, Clark, Dunn, Eau Claire, Pepin,
Pierce, Polk, Rusk, Sawyer, St. Croix and Washburn

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

CARP1143-002 06/05/2023

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU AND VERNON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

CARP1146-002 06/05/2023

Brown, Door, Florence, Kewaunee, Marinette, Menominee and Shawano

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

CARP2337-009 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN.....	\$ 39.22	34.01

* ELEC0014-002 11/26/2023

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, TREMPLEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 41.32	22.91

* ELEC0014-007 05/28/2023

REMAINING COUNTIES

	Rates	Fringes
Teledata System Installer Installer/Technician.....	\$ 29.82	17.70

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 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 46.05	30%+13.15

ELEC0158-002 05/30/2021

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig),
MARINETTE(Wausaukee and area South thereof), OCONTO, MENOMINEE
(East of a line 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 06/01/2023

ADAMS, CLARK (Colby, Fremont, 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:.....	\$ 38.74	26%+11.76

ELEC0430-002 06/01/2023		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 46.70	25.02

ELEC0494-005 05/28/2023		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 47.75	26.72

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 05/28/2023		

DODGE (East of Hwy 26 including Chester Twp, excluding Emmet Twp), FOND DU LAC (Except Waupun), MILWAUKEE, OZAUKEE, MANITOWOC (Schleswig), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 34.65	18.36
Technician.....	\$ 34.65	18.36

Installation, testing, maintenance, operation and servicing of all sound, intercom, telephone interconnect, closed circuit TV systems, radio systems, background music systems, language laboratories, electronic carillon, 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 06/01/2022

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:.....	\$ 37.41	29.50%+10.00

ELEC0890-003 06/01/2022

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE, RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

	Rates	Fringes
Electricians:.....	\$ 40.70	25.95%+11.26

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 06/01/2023

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 43.77	27.40
Group 2.....	\$ 43.27	27.40
Group 3.....	\$ 42.77	27.40
Group 4.....	\$ 42.51	27.40
Group 5.....	\$ 42.22	27.40
Group 6.....	\$ 36.32	27.40

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; bituminous 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 06/01/2023

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 43.40	30.67

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0008-003 06/01/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3),
WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 41.73	30.67

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor
Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2023

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.....	\$ 41.00	30.13

IRON0498-005 06/01/2023

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and
WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 45.18	47.08

IRON0512-008 04/30/2023

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON,
PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU
COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 43.00	34.11

IRON0512-021 04/30/2023

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA,
PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 39.14	34.00

LABO0113-002 06/01/2023

MILWAUKEE AND WAUKESHA COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 33.56	23.86
Group 2.....	\$ 33.71	23.86
Group 3.....	\$ 33.91	23.86
Group 4.....	\$ 34.06	23.86
Group 5.....	\$ 34.21	23.86
Group 6.....	\$ 30.05	23.86

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 Sawyer 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

LAB00113-003 06/01/2023

OZAUKEE AND WASHINGTON COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.81	23.86
Group 2.....	\$ 32.91	23.86
Group 3.....	\$ 32.96	23.86
Group 4.....	\$ 33.16	23.86
Group 5.....	\$ 33.01	23.86
Group 6.....	\$ 29.90	23.86

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 Sawyer 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

LAB00113-011 06/01/2023

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 32.62	23.86
Group 2.....	\$ 32.77	23.86
Group 3.....	\$ 32.97	23.86
Group 4.....	\$ 32.94	23.86
Group 5.....	\$ 33.27	23.86
Group 6.....	\$ 29.76	23.86

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 Sawyer 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

LAB00140-002 06/01/2023

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, TREMPPEALEAU, VERNON, VILLAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 37.57	19.25

Group 2.....	\$ 37.67	19.25
Group 3.....	\$ 37.72	19.25
Group 4.....	\$ 37.92	19.25
Group 5.....	\$ 37.77	19.25
Group 6.....	\$ 34.20	19.25

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; 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 Sawyer 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; Traffic Control

LAB00464-003 06/01/2023

DANE COUNTY

	Rates	Fringes
LABORER		
Group 1.....	\$ 37.85	19.25
Group 2.....	\$ 37.95	19.25
Group 3.....	\$ 38.00	19.25
Group 4.....	\$ 38.20	19.25
Group 5.....	\$ 38.05	19.25
Group 6.....	\$ 34.20	19.25

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 Sawyer 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 05/01/2023

ASHLAND, BAYFIELD, BURNETT, AND DOUGLAS COUNTIES

	Rates	Fringes
Painters:		
New:		
Brush, Roller.....	\$ 34.59	24.84
Spray, Sandblast, Steel....	\$ 35.19	24.84
Repaint:		
Brush, Roller.....	\$ 33.09	24.84
Spray, Sandblast, Steel....	\$ 33.69	24.84

PAIN0108-002 06/01/2023

RACINE COUNTY

	Rates	Fringes
Painters:		
Brush, Roller.....	\$ 41.04	21.95
Spray & Sandblast.....	\$ 42.04	21.95

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, TREMPLEAU, AND
VERNON COUNTIES

	Rates	Fringes
PAINTER.....	\$ 22.03	12.45

PAIN0781-002 06/01/2023

JEFFERSON, MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Painters:		
Bridge.....	\$ 39.84	24.86
Brush.....	\$ 39.09	24.86
Spray & Sandblast.....	\$ 39.84	24.86

PAIN0802-002 06/01/2023

COLUMBIA, DANE, DODGE, GRANT, GREEN, IOWA, LAFAYETTE, RICHLAND,
ROCK, AND SAUK COUNTIES

	Rates	Fringes
Painter		
Brush.....	\$ 35.00	20.62

PREMIUM PAY:
Structural Steel, Spray, Bridges = \$1.00 additional per hour.

PAIN0802-003 06/01/2023

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.....	\$ 35.00	20.62

PAIN0934-001 06/01/2022

KENOSHA AND WALWORTH COUNTIES

	Rates	Fringes
Painters:		
Brush.....	\$ 36.70	24.69
Spray.....	\$ 37.70	24.69
Structural Steel.....	\$ 36.85	24.69

PAIN1011-002 06/06/2021

FLORENCE COUNTY

	Rates	Fringes
Painters:.....	\$ 26.71	14.38

PLAS0599-002 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area A.....	\$ 45.17	27.27
Area B.....	\$ 39.97	25.02
Area C.....	\$ 40.40	25.25
Area D.....	\$ 41.16	24.49
Area E.....	\$ 40.50	25.14
Area F.....	\$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: ADAMS, BARRON, BROWN, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, 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 C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2023

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 35.57	26.09
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic.....	\$ 35.72	26.09

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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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) (iii)).

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.

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.

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END OF GENERAL DECISION"

EPA Logo Guidance

Go to <https://www.epa.gov/aboutepa/using-epa-seal-and-logo> to download EPA logos and find more guidance. When downloading the logos at the bottom of the page, it will prompt you for login information.

Username: epa

Password: graphics

As described on the next page, the EPA logo is the preferred identifier for signage purposes, in part because use of the EPA seal requires prior approval from the EPA. In the example signs above, the EPA logo would replace the U.S. Department of Transportation FTA logo.

EPA LOGO & SEAL SPECIFICATIONS FOR SIGNAGE PRODUCED BY EPA ASSISTANCE AGREEMENT RECIPIENTS

EPA's logo is a two-leaved flower, without stem, accompanied by the Agency's initials to the right. The EPA logo is the primary identifier for use on construction grant signage. Assistance agreement recipients are not required to receive EPA approval to use the EPA logo when used in accordance with the terms and conditions of their assistance agreement award.

The official seal of EPA is circular and is comprised of the two-leaved flower, with stem, encircled by the title UNITED STATES ENVIRONMENTAL PROTECTION AGENCY. The EPA seal may be used only when official comparable seals are used and the recipient has received prior written EPA approval.

It is important that the EPA logo and seal always be reproduced with consistent high quality. The seal and logo must remain intact and unchanged (for example, don't use the flower from the seal by itself). The logo and seal may only be displayed using either the standard color scheme or a single color that complements the background where it appears.

COLOR AND SPACING

- The entire logo and seal must appear in black, gray, or any uniform color or knock out white on a dark background. The flower and text may not be different colors. The flower itself may not contain more than one color. The seal can be monotone or full color, based on the rest of the seals that it's placed with.
- The relationship between the flower portion of the logo and Helvetica type should never be shifted or adjusted.



PREFERRED USE

Use the preferred presentation of the logo on products that do not have enough space for the full logo with text. It may also be used in the presence of other logos.



SIZE AND LOGO WITH OTHER LOGOS

It's important that all parts of the EPA logo be readable. The EPA logo should not be reproduced at sizes any smaller than 1.0" height on a sign. There are no maximum size restrictions as long as the clear space requirements are met. The logo should be made the same relative size as the other logos on the signage.



SIZE AND SEAL WITH OTHER SEALS

When there are multiple state or Federal seals/circular logos, the use of the EPA seal is appropriate with prior written EPA approval. The EPA seal should be the same size as the seals that accompany it and should be a minimum of 3 inches in height.



IMPROPER LOGO USAGE



DNR Logo Guidance

Go to <https://widnr.widencollective.com/c/6shqlmrx> to download DNR logos. Generally, the DNR Primary logo should be used on the sign.

LOGO

Primary Logo

The Primary logo consists of three green trees, blue sky and water, white clouds and lettering, a red W and black land and borders.



If monochrome printing is necessary, use one of the single-color versions. Use the all-black version over lighter backgrounds or the reverse all-white logo over dark backgrounds.



Alternate Applications



Social Media Avatars

Website and GovDelivery



Small Web Applications



DNR Business Cards



**WISCONSIN
DEPARTMENT OF
NATURAL RESOURCES**

Logo Colors



Rich Black
#030000
C=40 M=50 Y=60 K=100



Pantone 185 C
#EF3E42
C=0 M=91 Y=76 K=0



Pantone 305 C
#5CCA E8
C=56 M=0 Y=6 K=0



Pantone 347 C
#009A66
C=100 M=00 Y=76 K=9

Logo Guidelines



Do not use shadows, strokes or effects.



Do not stretch, skew or rotate the logo.



Do Not Recolor the logo



Do not alter the size, font or, relationship of the text.



Do not use the circular logo in one color.

DBE GOOD FAITH EFFORTS

What is the purpose of the Six Good Faith Efforts?

The Six Good Faith Efforts are required by EPA for financial assistance agreement recipients to ensure that all disadvantaged business enterprises (DBEs) have the opportunity to compete for procurements funded by EPA financial assistance dollars.

What are the Six Good Faith Efforts?

- 1) Ensure DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Tribal, Local and Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
- 2) Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes, whenever possible, posting solicitations for bids or proposals for a minimum of 30 calendar days before the bid proposal closing date.
- 3) Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Tribal and local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.
- 4) Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.
- 5) Use the services and assistance of the Small Business Administration (SBA) and the Minority Business Development Agency of the U.S. Department of Commerce.
- 6) If the prime contractor awards subcontracts, require the prime contractor to take the steps in paragraphs (1) through (5) of this section.

Note: For additional information regarding the solicitation requirements, please see the attached DBE Solicitation Guidance.

PRIME CONTRACTORS AND SUBCONTRACTORS: To make a good faith effort when subcontracting, a contractor can advertise for subcontractors with an ad that includes a simple statement like “DBEs, including MBEs and WBEs, are encouraged to submit proposals.” If just one advertisement is published for all areas of work that may be subcontracted, it should indicate those types of work that could be subcontracted. The advertisement(s) must appear in an industry trade publication and/or the official newspaper of public record for the municipality. ***The prime contractor should supply a copy of the advertisement to the consulting engineer or the municipality so they can submit it to the DNR along with other bid documents.***

Contact DBEs on a Unified Certification Program (UCP) List to solicit bids from these firms (e.g., firms registered in the WisDOT UCP, <http://wisconsin.gov/Pages/doing-bus/civil-rights/dbe/certified-firms.aspx>). This good faith effort option is available for municipalities, prime contractors and subcontractors to comply with the DBE requirements. The individual that makes the contacts should document all the contacts, preferably using [Form 8700-294a](#), the DBE Contacts Worksheet.

The UCP lists are the main sources of certified DBEs for the CWFP and the SDWLP, but there are other sources available. Any certification must meet the same requirements as those used for UCP-listed businesses. Any firm providing DBE certifications must be approved by the U.S. Environmental Protection Agency (USEPA).

Utilize DBEs registered with the UCP (e.g., WisDOT UCP, <http://wisconsin.gov/Pages/doing-bus/civil-rights/dbe/certified-firms.aspx>). Municipalities must require prime contractors to complete and submit with bids EPA Form 6100-4, DBE Subcontractor Utilization Form, for any DBE subcontractors they intend to use on the contract. ***Municipalities must then submit those forms to DNR along with other bidding documents prior to loan closing.***

EIF Form 8700-294a – DBE Contacts Worksheet (Revised April 2015). It is not mandatory to submit this form when following Option 2 to meet good faith efforts, but we encourage Contractors to use Form 8700-294a. This form provides an easy format for documenting contacts and provides DNR with all the information needed to conduct a review of DBE good faith efforts.

EPA Form 6100-2 – DBE Program Subcontractor Participation Form. This form gives a DBE subcontractor the opportunity to describe the work the DBE subcontractor received from the prime contractor, how much the DBE subcontractor was paid and any other concerns the DBE subcontractor might have. This form is submitted directly to EPA.

EPA Form 6100-3 – DBE Program Subcontractor Performance Form. This form captures an intended subcontractor’s description of work to be performed for the prime contractor and the price of the work submitted to the prime.

EPA Form 6100-4 – DBE Program Subcontractor Utilization Form. This form captures the prime contractor’s intended use of an identified DBE subcontractor, and the estimated dollar amount of the subcontract.

WHEN GOOD FAITH EFFORTS ARE NOT MET:

PRIME CONTRACTORS: If a prime contractor uses none of the options to meet DBE solicitation requirements, ***7% of the costs of that specific construction contract that would have been eligible for subsidy will instead be ineligible for SDWLP funding or eligible only for market interest rate in the CWFP.***

NOTE: This form is authorized by chs. NR 162 and NR 166 Wis. Adm. Code. The information requested on this form is necessary for the review of solicitation of Disadvantaged Business Enterprises (DBEs). This form is intended to be a tool to assist those seeking funding from the EIF (Clean Water Fund Program or Safe Drinking Water Loan Program) to meet the DBE requirements of EIF programs. Submitting this form to the Department is optional. Applicants may submit the form as the required documentation of solicitation efforts or provide the information in some other format. Personally identifiable information provided on this form will only be used in determining whether or not DBE requirements are met. Failure to complete or submit this form has no impact on the applicant. For complete information regarding DBE requirements, see the Contract Packet for DBE Compliance on DNR's website at <http://dnr.wi.gov/Aid/documents/EIF/Guide/DBE.html>.

Contact DBEs on a Unified Certification Program (UCP) List to solicit bids from DBE firms (e.g., firms registered in the WisDOT UCP, <http://wisconsindot.gov/pages/doing-bus/civil-rights/dbe/certified-firms.aspx>). The individual that makes the contacts should document all contacts. Contact at least 2 minority business enterprises (MBEs) and 2 women's business enterprises (WBEs); additional contacts may be to any type of DBE. Only contacts made to DBEs on DOT's UCP list can be considered in determining whether a good faith effort was made to solicit DBEs.

Project Information

Name of Municipality		EIF Project Number	
Name of Prime Contractor		Information Prepared By (Name and Phone or E-Mail Address)	

Contacts

Information Needed For Review	Contact 1	Contact 2	Contact 3
a. Name of Firm Contacted			
b. Contact's Phone Number or E-Mail			
c. Firm Type	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE
d. On DOT UCP list?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
e. Date Contacted			
f. Result of contact			
g. Bid received?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
h. If bid received and rejected, why rejected?			
i. Utilizing this firm? (If yes, more on p. 4)*	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

**Environmental Improvement Fund (EIF)
DBE Contacts Worksheet**
Form 8700-294A (R. 03/17)

Information Needed For Review	Contact 4	Contact 5	Contact 6
a. Name of Firm Contacted			
b. Contact's Phone Number or E-Mail			
c. Firm Type	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE
d. On DOT UCP list?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
e. Date Contacted			
f. Result of contact			
g. Bid received?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
h. If bid received and rejected, why rejected?			
i. Utilizing this firm? (If yes, more on p. 4)*	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Information Needed For Review	Contact 7	Contact 8	Contact 9
a. Name of Firm Contacted			
b. Contact's Phone Number or E-Mail			
c. Firm Type	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE
d. On DOT UCP list?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
e. Date Contacted			
f. Result of contact			
g. Bid received?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
h. If bid received and rejected, why rejected?			
i. Utilizing this firm? (If yes, more on p. 4)*	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

**Environmental Improvement Fund (EIF)
DBE Contacts Worksheet**
Form 8700-294A (R 03/17)

Information Needed For Review	Contact 10	Contact 11	Contact 12
a. Name of Firm Contacted			
b. Contact's Phone Number or E-Mail			
c. Firm Type	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE
d. On DOT UCP list?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
e. Date Contacted			
f. Result of contact			
g. Bid received?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
h. If bid received and rejected, why rejected?			
i. Utilizing this firm? (If yes, more on p. 4)*	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
Information Needed For Review	Contact 13	Contact 14	Contact 15
a. Name of Firm Contacted			
b. Contact's Phone Number or E-Mail			
c. Firm Type	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE	<input type="radio"/> MBE <input type="radio"/> WBE <input type="radio"/> Other DBE
d. On DOT UCP list?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
e. Date Contacted			
f. Result of contact			
g. Bid received?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
h. If bid received and rejected, why rejected?			
i. Utilizing this firm? (If yes, more on p. 4)*	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Participation Form

An EPA Financial Assistance Agreement Recipient must require its prime contractors to provide this form to its DBE subcontractors. This form gives a DBE¹ subcontractor² the opportunity to describe work received and/or report any concerns regarding the EPA-funded project (e.g., in areas such as termination by prime contractor, late payments, etc.). The DBE subcontractor can, as an option, complete and submit this form to the EPA DBE Coordinator at any time during the project period of performance.

Subcontractor Name		Project Name	
Bid/ Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity:	

Contract Item Number	Description of Work Received from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Amount Received by Prime Contractor

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Participation Form**

Please use the space below to report any concerns regarding the above EPA-funded project:

Subcontractor Signature	Print Name
Title	Date

The public reporting and recordkeeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form

This form is intended to capture the DBE¹ subcontractor's² description of work to be performed and the price of the work submitted to the prime contractor. An EPA Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name		Project Name	
Bid/ Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity:	

Contract Item Number	Description of Work Submitted to the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
DBE Certified By: ___ DOT ___ SBA ___ Other: _____		Meets/ exceeds EPA certification standards? ___ YES ___ NO ___ Unknown

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form**

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware of that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

Subcontractor Signature	Print Name
Title	Date

The public reporting and recordkeeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Utilization Form

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE¹ subcontractors² and the estimated dollar amount of each subcontract. An EPA Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name		Project Name	
Bid/ Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Issuing/Funding Entity:			

I have identified potential DBE certified subcontractors	__ YES	__ NO	
If yes, please complete the table below. If no, please explain:			
Subcontractor Name/ Company Name	Company Address/ Phone/ Email	Est. Dollar Amt	Currently DBE Certified?

Continue on back if needed

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Utilization Form**

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware of that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

The public reporting and recordkeeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

CITY OF SUPERIOR SURVEY MONUMENT RECORD

Date: _____

File No.: _____

LOCATION

City: Superior C Douglas State: WI
Street Name(s): _____
Plat: _____
Corner: _____
N: _____ Latitude (D-M-S): _____
E: _____ Longitude (D-M-S): _____
Datum: Douglas County T: _____ R: _____ S: _____

FIELD NOTES

Date of Visit: _____

Weather: _____

Monument Description: _____ Found Set Calculated

Land Surveyor (Name and License Number): _____

Field Crew: _____

Reason for Visit: _____

Notes and Monument Ties: _____

Methodology: _____

Attachment B

"General Decision Number: WI20240008 01/19/2024

Superseded General Decision Number: WI20230008

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)(1).

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 \$17.20 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 2024.
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 \$12.90 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 2024.

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 <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/05/2024
1	01/19/2024

BRWI0001-002 06/01/2023

CRAWFORD, JACKSON, JUNEAU, LA CROSSE, MONROE, TREMPPEALEAU, AND VERNON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.18	25.88

BRWI0002-002 06/01/2023

ASHLAND, BAYFIELD, DOUGLAS, AND IRON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 47.10	25.16

BRWI0002-005 06/01/2023

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...	\$ 39.97	25.02

BRWI0003-002 06/01/2023

BROWN, DOOR, FLORENCE, KEWAUNEE, MARINETTE, AND OCONTO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.00	26.06

BRWI0004-002 06/01/2023		

KENOSHA, RACINE, AND WALWORTH COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.50	26.96

BRWI0006-002 06/01/2023		

ADAMS, CLARK, FOREST, LANGLADE, LINCOLN, MARATHON, MENOMINEE,
ONEIDA, PORTAGE, PRICE, TAYLOR, VILAS AND WOOD COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.08	25.98

BRWI0007-002 06/01/2023		

GREEN, LAFAYETTE, AND ROCK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.95	26.80

BRWI0008-002 06/05/2023		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 44.96	25.67

BRWI0009-001 06/01/2023		

GREEN LAKE, MARQUETTE, OUTAGAMIE, SHAWANO, WAUPACA, WASHARA,
AND WINNEBAGO COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.00	26.06

BRWI0011-002 06/01/2023

CALUMET, FOND DU LAC, MANITOWOC, AND SHEBOYGAN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.00	26.06

BRWI0013-002 06/01/2023

DANE, GRANT, IOWA, AND RICHLAND COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 41.56	26.19

BRWI0019-002 06/01/2023

BARRON, BUFFALO, BURNETT, CHIPPEWA, DUNN, EAU CLAIRE, PEPIN,
PIERCE, POLK, RUSK, ST. CROIX, SAWYER AND WASHBURN COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 39.32	26.74

BRWI0021-002 06/01/2023

DODGE AND JEFFERSON COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 40.49	27.24

BRWI0034-002 06/01/2023

COLUMBIA AND SAUK COUNTIES

	Rates	Fringes
BRICKLAYER.....	\$ 41.56	26.19

CARP0068-011 05/02/2022

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.....\$ 41.19 27.05

CARP0264-003 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WAUKESHA, AND WASHINGTON
COUNTIES

Rates Fringes

CARPENTER.....\$ 41.91 29.72

CARP0310-002 06/05/2023

Ashland, Bayfield, Forest, Iron, Langlade, Lincoln, Marathon,
Oneida, Shawano, Taylor and Vilas

Rates Fringes

CARPENTER.....\$ 38.86 27.06
Piledriver.....\$ 39.43 27.02

CARP0314-001 06/05/2023

Columbia, Dane, Dodge, Grant, Green, Iowa, Jefferson,
Lafayette, Richland, Rock, Sauk and Walworth

Rates Fringes

CARPENTER.....\$ 38.86 27.06
Piledriver.....\$ 39.43 27.02

CARP0361-004 05/01/2018

BAYFIELD (West of Hwy 63) AND DOUGLAS COUNTIES

Rates Fringes

CARPENTER.....\$ 36.15 20.43

CARP0731-002 06/05/2023

Calumet (Eastern portion of the County), Fond Du Lac, Manitowoc
and Sheboygan

Rates Fringes

CARPENTER.....	\$ 38.86	27.06
Piledriver.....	\$ 39.43	27.02

 CARP0804-001 06/05/2023

Adams, Juneau, Portage and Wood

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
Piledriver.....	\$ 39.43	27.02

 CARP0955-002 06/05/2023

Calumet (western portion of County), Fond Du Lac, Green Lake,
 Marquette, Outagamie and Winnebago

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

 CARP1056-002 06/01/2023

	Rates	Fringes
MILLWRIGHT.....	\$ 40.00	27.77

 CARP1074-002 06/05/2023

Barron, Burnett, Chippewa, Clark, Dunn, Eau Claire, Pepin,
 Pierce, Polk, Rusk, Sawyer, St. Croix and Washburn

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

 CARP1143-002 06/05/2023

BUFFALO, CRAWFORD, JACKSON, LA CROSSE, MONROE, TREMPLEAU AND
 VERNON COUNTIES

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

CARP1146-002 06/05/2023

Brown, Door, Florence, Kewaunee, Marinette, Menominee and Shawano

	Rates	Fringes
CARPENTER.....	\$ 38.86	27.06
PILEDRIVER.....	\$ 39.43	27.02

CARP2337-009 06/05/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
PILEDRIVERMAN.....	\$ 39.22	34.01

CARP2337-010 06/01/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA

	Rates	Fringes
MILLWRIGHT.....	\$ 39.31	32.21

* ELEC0014-002 11/26/2023

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, TREMPLEAU, VERNON, AND WASHBURN COUNTIES

	Rates	Fringes
Electricians:.....	\$ 41.32	22.91

ELEC0127-002 06/01/2023

KENOSHA COUNTY

	Rates	Fringes
Electricians:.....	\$ 46.05	30%+13.15

ELEC0158-002 05/30/2021

BROWN, DOOR, KEWAUNEE, MANITOWOC (except Schleswig), MARINETTE(Wausaukee and area South thereof), OCONTO, MENOMINEE (East of a line 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 06/01/2023

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:.....	\$ 38.74	26%+11.76

ELEC0430-002 06/01/2023		

RACINE COUNTY (Except Burlington Township)

	Rates	Fringes
Electricians:.....	\$ 46.70	25.02

ELEC0494-005 05/28/2023		

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Electricians:.....	\$ 47.75	26.72

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 06/01/2022		

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
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Electricians:.....\$ 37.41 29.50%+10.00

ELEC0890-003 06/01/2022

DODGE (Emmet Township only), GREEN, JEFFERSON, LAFAYETTE,
RACINE (Burlington Township), ROCK AND WALWORTH COUNTIES

Rates Fringes

Electricians:.....\$ 40.70 25.95%+11.26

ENGI0139-003 06/05/2023

REMAINING COUNTIES

Rates Fringes

Power Equipment Operator

Group 1.....	\$ 47.53	25.89
Group 2.....	\$ 46.28	25.89
Group 3.....	\$ 43.23	25.89
Group 4.....	\$ 42.70	25.89
Group 5.....	\$ 40.63	25.89
Group 6.....	\$ 39.10	25.89

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 Sweepers; 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/Freeze 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 06/05/2023

DODGE, FOND DU LAC, JEFFERSON, KENOSHA, MILWAUKEE, OZAUKEE,
RACINE, SHEBOYGAN, WALWORTH, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Power Equipment Operator		
Group 1.....	\$ 44.54	25.35
Group 2.....	\$ 43.76	25.35
Group 3.....	\$ 42.81	25.35
Group 4.....	\$ 41.76	25.35
Group 5.....	\$ 40.36	25.35

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 and Winch 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 06/01/2023

BROWN, CALUMET, DOOR, FOND DU LAC, KEWAUNEE, MANITOWOC, MARINETTE, OCONTO, OUTAGAMI, SHAWANO, SHEBOYGAN, AND WINNEBAGO COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 43.40	30.67

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

 IRON0008-003 06/01/2023

KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH (N.E. 2/3), WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
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IRONWORKER.....\$ 41.73 30.67

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0383-001 06/01/2023

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.....	\$ 41.00	30.13

IRON0498-005 06/01/2023

GREEN (S.E. 1/3), ROCK (South of Edgerton and Milton), and WALWORTH (S.W. 1/3) COUNTIES:

	Rates	Fringes
IRONWORKER.....	\$ 45.18	47.08

IRON0512-008 04/30/2023

BARRON, BUFFALO, CHIPPEWA, CLARK, DUNN, EAU CLAIRE, JACKSON, PEPIN, PIERCE, POLK, RUSK, ST CROIX, TAYLOR, AND TREMPPEALEAU COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 43.00	34.11

IRON0512-021 04/30/2023

ASHLAND, BAYFIELD, BURNETT, DOUGLAS, IRON, LINCOLN, ONEIDA, PRICE, SAWYER, VILAS AND WASHBURN COUNTIES

	Rates	Fringes
IRONWORKER.....	\$ 39.14	34.00

LAB00113-004 06/05/2023

MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Open Cut)		
Group 1.....	\$ 18.72	22.75
Group 2.....	\$ 21.10	22.75
Group 3.....	\$ 24.81	22.75
Group 4.....	\$ 34.62	22.75
Group 5.....	\$ 34.78	22.75
Group 6.....	\$ 34.84	22.75
Group 7.....	\$ 38.88	22.75
Group 8.....	\$ 41.83	22.75
Group 9.....	\$ 42.50	22.75

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

LAB00113-005 06/05/2023

SEWER, TUNNEL & UNDERGROUND

KENOSHA AND RACINE COUNTIES

	Rates	Fringes
Laborers:		
Group 1.....	\$ 25.71	22.75
Group 2.....	\$ 31.93	22.75
Group 3.....	\$ 36.33	22.75
Group 4.....	\$ 38.19	22.75

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 Sawyer, 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

LAB00113-008 06/05/2023

MILWAUKEE, OZAUKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel-Free Air)		
Group 1.....	\$ 24.81	22.75
Group 2.....	\$ 34.78	22.75
Group 3.....	\$ 34.84	22.75
Group 4.....	\$ 38.88	22.75
Group 5.....	\$ 39.02	22.75
Group 6.....	\$ 41.83	22.75
Group 7.....	\$ 42.50	22.75

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

* LAB00113-009 06/05/2023

MILWAUKEE, OZAUCKEE, WASHINGTON & WAUKESHA COUNTIES

	Rates	Fringes
Laborers: (Tunnel -		
*COMPRESSED AIR 0 - 15 lbs.)		
Group 1.....	\$ 24.81	22.75
Group 2.....	\$ 34.78	22.75
Group 3.....	\$ 39.44	22.75
Group 4.....	\$ 40.28	22.75
Group 5.....	\$ 40.41	22.75
Group 6.....	\$ 43.24	22.75
Group 7.....	\$ 43.89	22.75

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 classifications

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.

 LAB00140-005 06/05/2023

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, KEWAUNEE, 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, TREMPPEALEAU, VERNON, VILAS, WALWORTH, WASHBURN, WAUPACA, WAUSHARA, WINNEBAGO, AND WOOD COUNTIES

	Rates	Fringes
LABORER (SEWER & WATER)		
Group 1.....	\$ 33.88	19.25
Group 2.....	\$ 35.73	19.25
Group 3.....	\$ 35.93	19.25
Group 4.....	\$ 36.68	19.25

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 Sawyer; 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

LAB00464-002 06/05/2023

DANE AND DOUGLAS COUNTIES

	Rates	Fringes
LABORER		
Group 1.....	\$ 33.78	19.25
Group 2.....	\$ 35.98	19.25
Group 3.....	\$ 36.18	19.25
Group 4.....	\$ 36.93	19.25

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 Sawyer; 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

LAB01091-010 06/05/2023

BAYFIELD, BURNETT, IRON, SAWYER, AND WASHBURN COUNTIES

	Rates	Fringes
Laborers: (SEWER & WATER)		
Group 1.....	\$ 33.57	19.25
Group 2.....	\$ 35.63	19.25
Group 3.....	\$ 35.83	19.25
Group 4.....	\$ 36.58	19.25

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 Sawyer; 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

PLAS0599-002 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
Area A.....	\$ 45.17	27.27
Area B.....	\$ 39.97	25.02
Area C.....	\$ 40.40	25.25
Area D.....	\$ 41.16	24.49
Area E.....	\$ 40.50	25.14
Area F.....	\$ 36.98	28.67

AREA DESCRIPTIONS

AREA A: ASHLAND, BURNETT, BAYFIELD, DOUGLAS, IRON, PRICE, SAWYER, AND WASHBURN COUNTIES

AREA B: ADAMS, BARRON, BROWN, CALUMET, CHIPPEWA, CLARK, COLUMBIA, DODGE, DOOR, DUNN, FLORENCE, FOND DU LAC, FOREST, GREEN LAKE, 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 C: BUFFALO, CRAWFORD, EAU CLAIRE, JACKSON, JUNEAU, LA CROSSE, MONROE, PEPIN, PIERCE, RICHLAND, TREMPLEAU, AND VERNON COUNTIES

AREA D: MILWAUKEE, OZAUKEE, WASHINGTON, AND WAUKESHA COUNTIES

AREA E: DANE, GRANT, GREEN, IOWA, LAFAYETTE, AND ROCK COUNTIES

AREA F: KENOSHA AND RACINE COUNTIES

TEAM0039-001 06/01/2023

	Rates	Fringes
TRUCK DRIVER		
1 & 2 Axles.....	\$ 35.57	26.09
3 or more Axles; Euclids, Dumptor & Articulated, Truck Mechanic.....	\$ 35.72	26.09

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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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) (iii)).

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.

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END OF GENERAL DECISION"